

Types of French freshwater mussels (Mollusca, Bivalvia, Unionoidea) in the Arnould Locard Collection at the Muséum national d'Histoire naturelle, Paris

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Mollusca,
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ABSTRACT

The specimens of the French freshwater mussels (Mollusca, Bivalvia, Unionoidea) in the Arnould Locard collection in the Muséum national d'Histoire naturelle in Paris were examined. 216 type series for 308 nominal species were located, including taxa described by Locard and by other workers of the "Nouvelle École". An annotated list of all 308 species is provided, including data regarding the relevant primary literature, type status and localities, and subsequent taxonomic opinions.

RÉSUMÉ

Les types de moules d'eau douce de France (Mollusca, Bivalvia, Unionoidea) dans la collection Arnould Locard du Muséum national d'Histoire naturelle.

Les spécimens de moules d'eau douce de France (Mollusca, Bivalvia, Unionoidea) de la collection Arnould Locard au Muséum national d'Histoire naturelle, Paris, ont été examinés. 216 séries types pour 308 espèces nominales ont été localisées, incluant des taxons décrits par Locard et d'autres chercheurs de la « Nouvelle École ». Une liste annotée de ces 308 espèces est fournie, incluant des données concernant la littérature primaire appropriée, les statuts et les localités types, suivie d'un avis taxonomique.

MOTS CLÉS

Mollusca,
Bivalvia,
Unionoidea,
Unionidae,
Margaritiferidae,
taxonomie,
nomenclature,
Nouvelle École,
France.

INTRODUCTION

"In 1892 Arnould Locard, one of the great lights of the new school, stated that there were 208 species of Unios and 250 Anodontas in France alone. Life is too short and valuable to be wasted in any attempt at deciphering such nonsense, and I have not even cumbered the pages of this work with a list of these new species." (Simpson 1900: 513).

Alexandre Arnould Locard (b. 1841, d. 1904; Germain 1905) recognized 499 of freshwater mussels (Mollusca: Bivalvia: Unionoidea) in France (Locard 1893a). Of these, he was himself responsible for the introduction of 297 species in four genera: *Unio* (152 sp.), *Margaritana* (2), *Anodonta* (120) and *Pseudanodonta* (23). Current diversity assessments for France recognize only 10 native species (Falkner *et al.* 2002), all widely distributed among the river systems of Europe (Haas 1969; Falkner *et al.* 2001; Falkner *et al.* 2002; <http://www.faunaeur.org/>). However, revisionary work in other parts of the continent have shown that European freshwater mussel diversity has been under-estimated (Reis & Araujo 2009; Araujo *et al.* 2009a), and our understanding of Palearctic freshwater mussel diversity would benefit from the thorough and modern revision.

Arnould Locard, J.-R. Bourguignat and other adherents to the "Nouvelle École" in Paris, in an effort to make conchology more objective, succeeded in over-describing the Unionidae and Margaritiferidae of France (and elsewhere) (Dance 1970). While it might be convenient to regard the 50x too numerous taxa of Locard as superfluous and ignore them, as Simpson (1900, 1914) did, these species are available under the guidelines of the International Code of Zoological Nomenclature (ICZN 1999). The objective of this paper is to document the type specimens of the French species of *Unio* (+ *Potomida*), *Margaritana* (= *Margaritifera*), *Anodonta*, and *Pseudanodonta* introduced by Locard and deposited in the Museum national d'Histoire naturelle. Also included are the types of other authors that reported specimens in Locard's collection. It is my expectation that these data will facilitate a modern revision of the Western Palearctic freshwater mussel lineages.

MATERIAL AND METHODS

This effort to document the French freshwater mussel species of the genera *Unio*, *Margaritana*, *Anodonta*, and *Pseudanodonta* introduced by Arnould Locard builds upon the MUSSEL Project Database (MUSSELpdb). The MUSSELpdb was developed to manage both specimen records and taxonomic data from the literature, as described previously (Graf 2007, 2010, Graf & Cummings, 2007, 2011). A preliminary list of nominal species described from France was generated from various secondary literature sources, including Westerlund (1890), Simpson (1900, 1914), Germain (1931), Haas (1940, 1969), Falkner *et al.* (2001, 2002), and Graf (2007). A complete tally of the relevant Locard taxa was verified from the original literature by that author (Locard 1882, 1884, 1885, 1889, 1890, 1893a, b, 1894, 1899) as well as others known or suspected to have collaborated with him (e.g., Bourguignat 1881, Bérenguier 1882, Servain 1882, 1885, 1887, 1888, 1890; Baichère 1890; Dumas 1895; Rochebrune 1903; Germain 1905). For each nominal species, the attributed authors (ICZN 1999: art. 50.1), date of publication, citation, page number and figure references were recorded in the MUSSELpdb.

In addition to bibliographic information, cardinal measurements (length, height, width) and range data were captured verbatim for each nominal species, as well as any other text describing the etymology of the nomen, infra-subspecific forms, allusions to the number of specimens available in the original type series, and explicit references to specimens. These data were used to recognize potential type specimens in the Locard Collection.

The Locard Collection is maintained at the Muséum national d'Histoire naturelle (MNHN) in Paris, France. Before this work, the type specimens were not segregated in the type collection but were maintained in the general malacology collection. In June and July 2008, I inventoried the collection of French *Unio*, *Potomida*, *Anodonta*, *Pseudanodonta*, and *Margaritifera* deposited in the MNHN. Unless compelling contrary data accompanied the specimens (e.g., a collection date subsequent to that of the description), all Locard lots originally labelled

with the proper nominal species and from localities listed in the original description were regarded as part of the original type series.

For each nominal species in the list below, complete references are given for the original works in which each species was described and the type series (as determined by both measurements and localities) is reported. In addition, citations of published figures (presumably regarded as unavailable misidentifications by Locard) and other such indications referable to particular nomina are listed among the references to the original descriptive works. Nominal species names may have been modified from their original spelling, as per art. 32.5 (ICZN 1999).

Whenever possible, each nominal species was fixed to a single specimen. However, in many cases this was not possible or deemed imprudent. In addition to the measurements of the individual specimens provided by Locard, some unknown previous worker had sequentially numbered each species of *Anodonta* and *Pseudanodonta* in the margins of the copy of Locard (1890) retained in the malacology library of the MNHN. Particular specimens in the Locard Collection were often marked with one of these numbers (in the same handwriting) and affixed with a blob of red resin, presumably indicating their type status. Unfortunately, there was no analogous situation for Locard (1889) and the specimens originally described in *Unio* and *Margaritana*.

The following criteria were used to determine the type status of the specimens reported here:

Holotype (original designation), art. 73.1.1 (ICZN 1999). – Occasionally, Locard (or another author) used the word “type” in the original publication to refer to a particular specimen locality. For example, Locard (1882: 363) said of *Unio pornae*, “Cette forme dont le type habite l’Italie a été retrouvée dans plusieurs stations du bassin du Rhône.” This is taken to refer to the typical form and not a reference to a particular specimen. No holotypes by original designation are recognized herein.

Holotype (monotypy), art. 73.1.2. (ICZN 1999) – Locard (or another author) referred to only a single locality in the original publication, the specimen was listed as being in the Locard Collection, only a single specimen was found bearing the nomen in question,

and the dimensions of the specimen were reasonably similar to those given in the original description.

Lectotype, Art. 74 (ICZN 1999), as emended by Declaration 44. – Where the measured specimen could be identified among the specimens inferred to constitute all or part of the type series, a lectotype is designated herein. It was determined that the measurements by Locard were highly inaccurate and unreliable. Otherwise, it would seem that very few Locard types actually occur in the Locard Collection.

Paratype/Paralectotype, Arts. 72.4.5 & 74.1.3 (ICZN 1999) – All remaining specimens of the type series, excluding the holotype or lectotype.

Syntype, Art. 73.2 (ICZN 1999) – When a single holo- or lectotype could not be unambiguously determined, all specimens of the inferred type series were retained as syntypes.

In the absence of specimens determined to be from the original type series, exemplar specimens from the Locard Collection are indicated as evidence of the author’s concept for each named species. These have no name-bearing status.

For each nominal species, at least one specimen was digitally photographed. All specimens were logged in the “Specimens” table of MUSSELPdb with a unique numerical identifier (and then subsequently by an MNHN catalog number), the original and subsequent identifications, the locality as it appeared on the label, the collection from which the MNHN received the specimen, and other identifying information. The specimen localities obtained were subsequently verified (when possible) using the NGA GEOnet Names Server (<http://earth-info.nga.mil/gns/html/>) or Wikipedia (<http://www.wikipedia.org/>), Google Maps (<http://maps.google.com/>), and traditional atlases, translated into English, and assigned to a modern French administrative department and major basin. Localities that could not be precisely determined are given in quotes.

RESULTS

Of the 308 French freshwater mussel nominal species determined to be associated with Arnould Locard from the literature surveyed, 216 (70%) complete or partial type series were found in the

mollusk collection of the MNHN. Most of these had been aggregated (but incompletely sorted) as the “Locard Collection,” but Locard specimens were also found in the general collection, as recognized by either explicit secondary labels or original labels in Locard’s distinctive, often illegible handwriting (Figure 1). Of these type series, 14 had holotypes. Lectotypes were designated for 132 nominal species (four based upon figures), and syntypes were recognized for 71 more. Three paralectotype lots were identified, and the lectotypes designated from figured specimens are believed to be in other collections (e.g., in the J.-R. Bourguignat Collection in the Musée d’Histoire naturelle in Geneva). For 51 nominal species, only non-type specimens were discovered in the Locard Collection. No specimens were located for 40 nomina.

The French nominal species of freshwater mussels described by Locard (and other authors) and their types are listed below in alphabetical order by their trivial epithet (following the Discussion). Images of these specimens can be found on the MUSSEL Project Website (<http://www.mussel-project.net/>).

DISCUSSION

Simpson (1900) argued that there was little value to fussing about any of the nominal species of European freshwater mussels described by Arnould Locard and the other students of the so-called “Nouvelle École” (quoted above). Before 1860, about 250 nominal species had already been described for the European fauna (Graf 2007). This excess resulted from both (1) the bewildering conchological diversity displayed by freshwater mussels in different river systems and habitats and (2) the several independent workers documenting their local mollusk assemblages in their own languages: the Tower of Babel meets ecophenotypic variation. To this confusion, J.-R. Bourguignat, Arnould Locard, and other conchologists of the “Nouvelle École” in Paris sought to introduce a new objectivity by taking a series of measurements (Figure 2). New “species” could be repeatedly recognized by whether or not they fit the measurements of the type (apparently including the absolute size of the specimens examined) (Dance 1970). Between 1860

and 1914, over 1000 additional nominal species were introduced for the European freshwater mussel fauna by the “Nouvelle École” and other workers (Graf 2007).

Even by Simpson’s time at the turn of the 20th century, it was widely recognized that, though perhaps objective, the algorithm for recognizing species practiced by the “Nouvelle École” had nothing to do with biology. Perhaps Simpson had a point: What could possibly be gained by stirring up the dust on such meaningless nonsense? Louis Germain (1931), who had ready access to the Locard specimens in the MNHN, made a valiant effort to fit the taxa of the “Nouvelle École” into the emerging modern classification of European freshwater mussels, and Fritz Haas (1940, 1969) provided the most recent, most complete synonymies relating the super-nomination of the 19th century to the current system.

Unfortunately, Haas’s (1940, 1969) arrangement for the freshwater mussels of Europe is dated when compared to modern reassessments of the biological/evolutionary entities recognized using improved philosophies of species concepts and available genetic data. In the case of *Anodonta*, for example, the current taxonomic situation is woefully inadequate. Haas (1940, 1969) treated all European populations as a single species, *Anodonta cygnea* (Linnaeus, 1758), with 553 synonyms (!). Graf (2007) reported 568 nominal species attributable to European *Anodonta* from the secondary literature, although the actual availability of them all had been incompletely verified. While more recent classifications (Falkner *et al.* 2001, Falkner *et al.* 2002) have recognized two European species in that genus, *A. cygnea* and *A. anatina* (Linnaeus, 1758), the synonymy still has not been updated. Again, taking Simpson’s utilitarian tack, it might be considered impractical, given limited resources and time, to meddle in such minutia. But, among the whole western Palearctic freshwater mussel assemblage, population genetic and molecular phylogenetic studies have repeatedly recovered distinct evolutionary lineages that may warrant subspecies or species status (e.g., Nagel *et al.* 1996, 1998, Nagel & Badino 2001, Araujo *et al.* 2009b). Such findings, the requirements of the Code, and the need for modern revisions highlight the impracticality of Simpson’s stance.



FIG. 1. — MNHN 22121, Lectotype of *Anodonta avenionensis* Locard, 1890. This specimen had been previously indicated within the Locard Collection to be a "type", by both the blob of resin on the outer surface of the left valve and by the number written on the inside of right valve (#216), also noted in the MNHN Malacology Library copy of Locard (1890). A handwriting sample from the original label is provided as well. Scale bar: 5 cm.

Given the endangered status of freshwater mussels and the need to develop informed, responsible conservation policy, this situation is unacceptable. For the freshwater malacological community to provide the basic information that our stakeholders require, we must step up (with the aid of enlightened funding agencies and research administrators) and accept the challenge – before it is too late and of only academic interest. I hope that my effort to bring to the fore some of the most notoriously troublesome and neglected data-points necessary to revise the European species of freshwater mussels will facilitate this effort. The “nuclear option” suggested by Graf (2007) to simply suppress these taxa for nomenclatural purposes and start over is an alternative, though one that will probably require just as much effort as a thorough revision of the European freshwater mussel fauna.

LIST OF NOMINAL SPECIES AND TYPES OF FRENCH FRESHWATER MUSSELS FROM THE COLLECTION OF ARNOULD LOCARD

The following symbols and abbreviations are used in the list:

- † published figure represents the holotype, lectotype or syntype;
- = nominal species was treated as valid by a subsequent worker using the combination given;
- + nominal species was treated as an invalid synonym by a subsequent worker using the combination given;
- ms manuscript (unpublished);
- spec. specimens.

adonus Locard, 1889, *Unio*.

Unio (Pisaniana) adonus [ex Servain ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 40, 105.

Lectotype (here designated) MNHN 22085: the Loire, at Indre [Dept. Loire-Atlantique, Loire Basin].

- = *Unio adonus* – Westerlund 1890: 148.
- = *Unio* (Groupe de l'*U. adonus*) *adonus* – Locard 1893a: 175, fig. 188†.
- + *Unio batavus* – Germain 1931: 727.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

aegericus Locard, 1889, *Unio*.

Unio (Aegericiana) aegericus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 63, 144.

Holotype (monotypy) MNHN 22086: the Baise, at Valence-sur-Baise [Dept. Gers, Garonne Basin].

- = *Unio aegericus* – Westerlund 1890: 125.
- = *Unio* (Groupe de l'*U. tumens*) *aegericus* – Locard 1893a: 203.
- + *Unio tumidus* var. *maximus* – Germain 1931: 744.
- + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

aequorea Locard, 1890, *Anodonta*.

Anodonta (Anatiniana) aequorea [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 60, 174.

Lectotype (here designated) MNHN 22087: Marboz [Dept. Ain, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. anatina*) *aequorea* – Locard 1893a: 278.
- + *Anodonta avonensis* – Germain 1931: 760.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

albanorum Bourguignat in Locard, 1889, *Unio*.

Unio (Turtoniana) albanorum [ex F. Pacôme ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 45, 116.

Lectotype (here designated) MNHN 22088 and paralectotypes MNHN 22089 (2 spec.): the “Grande-Garonne” at Fréjus [Dept. Var, Argens Basin]. Paralectotypes MNHN 22090 (2 spec.): Vidauban [Dept. Var, Argens Basin].

- = *Unio albanorum* – Westerlund 1890: 162.
- = *Unio* (Groupe de l'*U. turtoni*) *albanorum* – Locard 1893a: 184.
- + *Unio requieni* – Germain 1931: 736.

aldemarcus Locard, 1889, *Unio*.

Unio (Tumidusiana) aldemarcus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 70, 156.

Lectotype (here designated) MNHN 22091: the Aisne, at Guignicourt [Dept. Aisne, Seine Basin]. Paralectotype MNHN 22092: the Risle, at Pont-Audemer [Dept. Eure, Seine Basin].

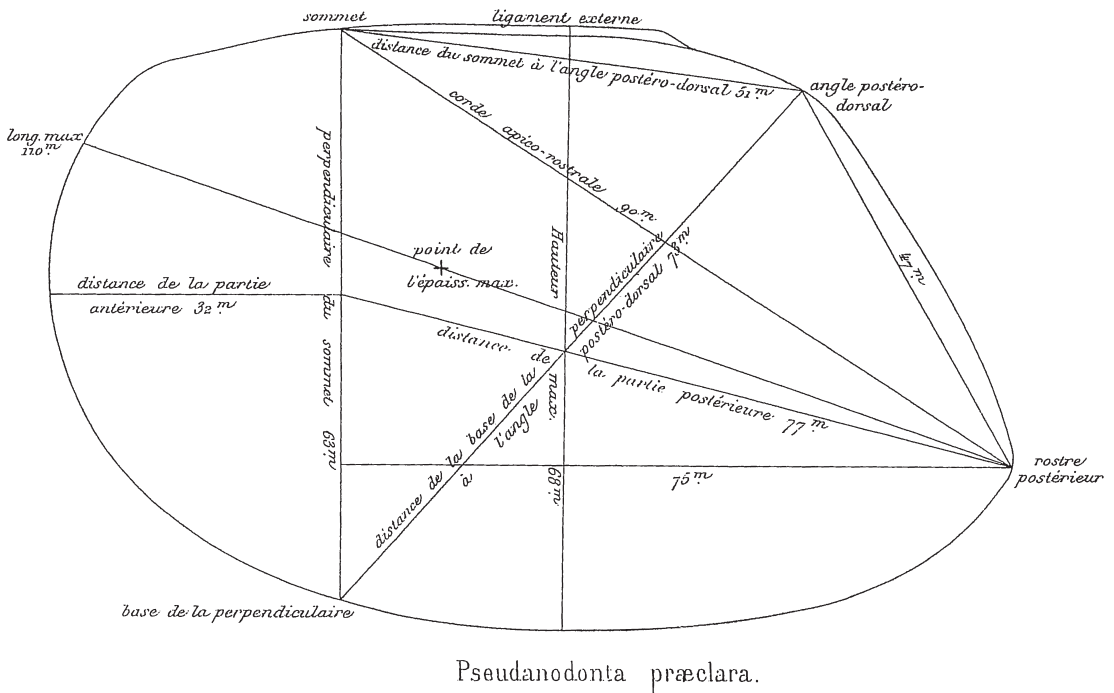


FIG. 2. — Reproduction of the “Nouvelle École” measurement scheme, from Bourguignat (1881).

- = *Unio aldemaricus* – Westerlund 1890: 100.
- = *Unio* (Groupe de l'*U. tumidus*) *aldemaricus* – Locard 1893a: 213.
- + *Unio tumidus* – Germain 1931: 741.
- + *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

***alethinia* Locard, 1890, *Anodonta*.**

Anodonta (*Meretrixiana*) *alethinia* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 49, 153.

No types were found in the Locard Collection. Exemplar specimen MNHN 22093 the Maine at Cholet [Dept. Maine-et-Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “L’Allier, à Moulins (Allier) [Bourguignat].” (Locard 1890: 49).

- = *Anodonta* (Groupe de l'*A. carvillhopsis*) *alethinia* – Locard 1893a: 263.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***alpecanus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. crassus*) *alpecanus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 285, 355.

Lectotype (here designated) MNHN 22094: the Oise at Creil [Dept. Oise, Seine Basin].

- = *Unio* (*Alpecanusiana*) *alpecanus* – Locard 1889: 71.
- = *Unio* (Groupe de l'*U. tumidus*) *alpecanus* – Locard 1893a: 215.
- + *Unio tumidus* – Germain 1931: 741.
- + *Unio tumidus tumidus* – Haas 1940: 128; 1969: 20.

***alsatica* Locard, 1890, *Anodonta*.**

Anodonta (*Piscinaliana*) *alsatica* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 84, 225.

Lectotype (here designated) MNHN 22095 and paralectotype MNHN 22096: Rhône-Rhine Canal, at Mulhouse [Dept. Haut-Rhin, Rhin basin].

= *Anodonta* (Groupe de l'*A. miletii* [sic]) *alsatica* – Locard 1893a: 301.
 + *Anodonta anatina* – Germain 1931: 757.
 + *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

amblyus Locard, 1889, *Unio*.

Unio (*Moreletiana*) *amblyus* [ex Castro ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 46, 119.

Lectotype (here designated) MNHN 22097: the Loire, at Balbigny [Dept. Loire, Loire Basin].

= *Unio amblyus* – Westerlund 1890: 147.
 = *Unio* (Groupe de l'*U. amblyus*) *amblyus* – Locard 1893a: 184, fig. 198†; 1899: 224.
 + *Unio villae* – Germain 1931: 735.
 + *Unio elongatulus mancus* – Haas 1940: 126; 1969: 36.
 + *Unio mancus* – Araujo *et al.* 2009a: 33.

ampullaceus Locard, 1893, *Unio*.

Unio ampullaceus (Groupe de l'*U. batavus*) Locard *non* Lea, 1893a: *Cog. eaux douces saumâtres France*: 174. Junior primary homonym of *U. ampullaceus* Lea, 1866 = *Diplodon wymanii* (Lea, 1860) *fide* Simone (2006) (ICZN 1999: Art. 57.2).

Lectotype (here designated) MNHN 22098 and paralectotype MNHN 22099: Le Mans [Dept. Sarthe, Loire Basin].

+ *Unio batavus* – Germain 1931: 728.
 + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

andegavensis Bourguignat *in* Locard, 1882, *Unio*.

= *Unio* (Groupe de l'*U. batavus*) *andegavensis* [ex Servain ms] Bourguignat *in* Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 359.

Possible syntype MNHN 22100: the Maine at Angers [Dept. Maine-et-Loire, Loire Basin]. The measured syntype is presumed to be in either the Servain or Bourguignat Collection. Published localities, “Le Maine, à Angers, dans le Maine-et-Loire; la Seine, au Pecq, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 289).

= *Unio* (*Batavusiana*) *andegavensis* – Locard 1889: 36.
 = *Unio batavus* var. *andegavensis* – Westerlund 1890: 76.

= *Unio* (Groupe de l'*U. batavus*) *andegavensis* – Locard 1893a: 167.
 + *Unio batavus* – Germain 1931: 727.
 + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

andeliacus Bourguignat *in* Locard, 1889, *Unio*.

Unio (*Nubilusiana*) *andeliacus* Bourguignat *in* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 32, 90.

Lectotype (here designated) MNHN 22101: the Gouet, at Saint-Brieuc [Dept. Côtes-d’Armor, Gouët Basin].

= *Unio andeliacus* – Westerlund 1890: 165.
 = *Unio* (Groupe de l'*U. locardianus*) *andeliacus* – Locard 1893a: 165.
 + *Unio mancus* var. *elongatulus* – Germain 1931: 727.
 + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

annesiaca Locard, 1890, *Anodonta*.

Anodonta (*Cygnaeana*) *annesiaca* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 28, 110.

Lectotype (here designated) MNHN 22102 and paralectotypes MNHN 22103 (2 spec.): Lake Annecy [Dept. Haute-Savoie, Rhône Basin]. Paralectotype MNHN 22104: Lake Aiguebelette [Dept. Haute-Savoie, Rhône Basin]. Paralectotype MNHN 22105: Lake Malpas [Dept. Doubs, Rhône Basin].

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *annesiaca* – Locard 1893a: 236.
 + *Anodonta cygnaea* [sic] – Germain 1931: 752.
 + *Anodonta* (s.s.) *cygnea* – Haas 1969: 343.

anticomplanata Locard, 1890, *Pseudanodonta*.

Anodonta complanata [non Rossmässler, 1835] – Drouët, “1887. *Union. bas Rhône*, pl. III, fig. 1.”

Pseudanodonta (*complanatiana*) *anticomplanata* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 11.

The Drouët reference cited by Locard could not be located. Drouët’s (1889) paper on the “Unionidae du Bassin du Rhône” did not mention *A. complanata*, and plate 3, figure 1 refers to *A. convexa* Drouët, 1888. However, Drouët’s (1854) plate 3, figure 1

is labeled as *A. complanata*. Published locality, “L'échantillon représenté provient de Hongrie.” (Locard 1890: 11).

***antimoquinianus* Locard, 1889, *Unio*.**

Unio moquinianus Dupuy, 1843: *Essai Moll. Terr. Fluv. du Gers*: fig. 3 (non figs 1, 2). In part.

Unio (Moquiniana) antimoquinianus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 47, 121.

Syntype MNHN 22106: the Échez, at Vic-en-Bigorre [Dept. Hautes-Pyrénées, Adour Basin].

= *Unio moquinianus* var. *antimoquinianus* – Westerlund 1890: 147.

= *Unio* (Groupe de l'*U. ater*) *antimoquinianus* – Locard 1893a: 179.

+ *Unio consentaneus* var. *moquini* – Germain 1931: 734.

+ *Unio elongatulus moquinianus* – Haas 1940: 126; 1969: 35.

+ *Unio mancus* – Araujo *et al.* 2009a: 33.

***aploa* Bourguignat in Locard, 1890,
Pseudanodonta.**

“*Pseudanodonta aploa*” Servain, 1890: *Bull. Soc. Malac. France* 7: 302. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (Elongatiana) aploa Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 16, 100.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, “La Seine, au Port-Marly (Seine-et-Oise); la Saône, à Couzon, à Fleurieux, etc. (Rhône) [Bourguignat]; etc.” (Locard 1890: 16).

= *Pseudanodonta* (Groupe du *P. elongata*) *aploa* – Locard 1893a: 22).

+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

***aramonensis* Locard, 1889, *Unio*.**

Unio (Meretricisiana) aramonensis Locard, 1889: *Contr. Faune Malac. Franç.* 13: 50, 125.

Lectotype (here designated) MNHN 22107: the Rhône, at Aramon [Dept. Gard, Rhône Basin].

= *Unio aramonensis* – Westerlund 1890: 133.

= *Unio* (Groupe de l'*U. requieni*) *aramonensis* – Locard 1893a: 191.

+ *Unio requieni* – Germain 1931: 736.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***ararisana* Bourguignat in Locard, 1882,
Pseudanodonta.**

Pseudanodonta (Groupe du *P. rayi*) *ararisana* [ex Coutagne ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 266, 349.

Possible syntype MNHN 22108: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin]. The measured syntype is presumed to be in either the Coutagne or Bourguignat collection.

= *Anodonta (Pseudanodonta) arasiana* [sic] – Westerlund 1890: 309.

= *Pseudanodonta (Elongatiana) ararisana* – Locard 1890: 17.

= *Pseudanodonta* (Groupe du *P. elongata*) *ararisana* – Locard 1893a: 224.

+ *Pseudanodonta dorsuosa* – Germain 1931: 749.

+ *Pseudanodonta elongata* – Haas 1940: 139; 1969: 378.

***ararisianus* Bourguignat in Locard, 1889, *Unio*.**

Unio (Gallicusiana) ararisianus [ex Coutagne ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 49, 123.

Syntype MNHN 22109: the Saône at Lyon [Dept. Rhône, Rhône Basin].

= *Unio ararisianus* – Westerlund 1890: 130.

= *Unio* (Groupe de l'*U. gallicus*) *ararisianus* – Locard 1893a: 190.

+ *Unio requieni* – Germain 1931: 736.

***arcuatulus* Bourguignat in Locard, 1889, *Unio*.**

Unio (Cyrtusiana) arcuatulus Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 59, 138.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, “La Seine, à Poissy (Seine-et-Oise); la Poissonnière, près d'Angers (Maine-et-Loire) [Bourguignat]; etc.” (Locard 1889: 59).

- = *Unio arcuatulus* – Westerlund 1890: 124.
- = *Unio* (Groupe de l'*U. gestroianus*) *arcuatulus* – Locard 1893a: 197.
- ?+ *Unio requieni* var. *porneae* – Germain 1931: 739.
- + *Unio elongatulus mancus* – Haas 1940: 126; 1969: 36.
- + *Unio mancus* – Araujo *et al.* 2009a: 33.

***arelatus* Locard, 1893, *Unio*.**

Unio (Groupe de l'*U. platyrhynchoideus*) *arelatus* [ex Bourguignat ms] Locard, 1893a: *Coq. eaux douces saumâtres France*: 188.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "... les environs d'Arles." (Locard 1893a: 188).

- + *Unio consentaneus* var. *jacquemini* – Germain 1931: 734.
- + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***arenarum* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. batavus*) *arenarum* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 358.

No types were found in the Locard Collection. Exemplar specimen MNHN 22110: Indre [Dept. Loire-Atlantique, Loire Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, "La Seine, au-dessous de Paris, au Pecq, à Poissy, dans Seine-et-Oise, etc. (Bourguignat)." (Locard 1882: 289).

- = *Unio (Batavusiana) arenarum* – Locard 1889: 38.
- = *Unio batavus* var. *arenarum* – Westerlund 1890: 75.
- = *Unio* (Groupe de l'*U. batavus*) *arenarum* – Locard 1893a: 171.
- + *Unio batavus* var. *baraceus* – Germain 1931: 729.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

***aresta* Locard, 1890, *Anodonta*.**

Anodonta (Adamiana) aresta Locard, 1890: *Contr. Faune Malac. Franç.* 14: 41, 137.

Lectotype (here designated) MNHN 22111: Montafroy [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22112: "Bois-Vieux" [Dept. Jura, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. subponderosa*) *aresta* – Locard 1893a: 253.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***arnouldi* Bourguignat, 1883, *Anodonta*.**

Anodonta arnouldi Bourguignat, 1883: *Aperçu Unionid. Pénins. Ital.*: 114.

Syntype MNHN 22113: Lake Murten, Switzerland. Syntype MNHN 22114: the Weser, near Vegesack (Bremen), Germany. The measured syntype is presumed to be in the Bourguignat Collection.

- = *Anodonta (Milletiana) arnouldi* – Locard 1884: 40.
- = *Anodonta (Euanodonta) arnouldi* – Westerlund 1890: 293.
- = *Anodonta (Arnouldiana) arnouldi* – Locard 1890: 85.
- = *Anodonta* (Groupe de l'*A. arnouldi*) *arnouldi* – Locard 1893a: 306.
- + *Anodonta maculata* – Germain 1931: 771.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 340.

***arnouldi* Bourguignat in Locard, 1890, *Pseudanodonta*.**

"*Pseudanodonta arnouldi*" Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (Rossmässleriana) arnouldi [ex F. Pacôme ms] Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 13, 91.

No types were found in the Locard Collection. Exemplar specimen MNHN 22115: the Loire, at Les Ponts-de-Cé [Dept. Maine-et-Loire, Loire Basin]. The measured syntype is presumed to be in either the Bourguignat or Pacôme collection. Published locality, "La Saône, à Fleurieux (Rhône) [Bourguignat, F. Pacôme]." (Locard 1890: 13).

- = *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *arnouldi* – Locard 1893a: 219.
- + *Pseudanodonta dorsuosa* – Germain 1931: 749.
- + *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***arrosa* Locard, 1899, *Anodonta*.**

"*Anodonta arrosa*" Locard, 1890: *Contr. Faune Malac. Franç.* 14: 46. Nude name, unavailable (ICZN 1999: Art. 12.1).

Anodonta (Groupe de l'*A. arrosa*) *arrosa* [ex Castro ms]
Locard, 1899: *Conchyliol. Portug.*: 282.

No specimens were found in the Locard Collection.
The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Tamega à Chaves (collect. Bourguignat).” (Locard 1899: 283).

arundinum Locard, 1884, *Anodonta*.

Anodonta (*Spengleriana*) *arundinum* [ex Servain ms]
Locard, 1884: *Contr. Faune Malac. Franç.* 8: 37.

No types were found in the Locard Collection.
Exemplar specimen MNHN 22116: Juigné-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. The measured syntype presumed to be in either the Servain or Bourguignat Collection. Published locality, “... dans le Moine à Cholet dans le département de Maine-et-Loire...” (Locard, 1884: 37).

= *Anodonta* (*Euanodonta*) *arundinum* – Westerlund 1890: 276.

= *Anodonta* (*Meretrixiana*) *arundinum* – Locard 1890: 49.
= *Anodonta* (Groupe de l'*A. carvalhopsis*) *arundinum* – Locard 1893a: 263.

+ *Anodonta intermedia* – Germain 1931: 769.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

atharsus Locard, 1889, *Unio*.

Unio (*Jousseameana*) *atharsus* [ex Bourguignat ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 63, 145.

Lectotype (here designated) MNHN 22117 and paralectotype MNHN 24565: “Varennes” [Dept. Jura, Rhône Basin].

= *Unio atharsus* – Westerlund 1890: 127.

= *Unio* (Groupe de l'*U. tumens*) *atharsus* – Locard 1893a: 204.

?+ *Unio requieni* var. *pornae* – Germain 1931: 739.

+ *Unio pictorum ravoisieri* – Haas 1940: 123; 1969: 37.

aturicus Locard, 1889, *Unio*.

Unio (*Mancusiana*) *aturicus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 23, 82.

Holotype (monotypy) MNHN 22118: the Bahus [Dept. Landes, Adour Basin].

= *Unio aturicus* – Westerlund 1890: 86.

= *Unio* (Groupe de l'*U. mancus*) *aturicus* – Locard 1893a: 157.

+ *Unio mancus* var. *amnicus* form *riparius* – Germain 1931: 726.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

auboirica Locard, 1890, *Anodonta*.

Anodonta (*Ogerieniana*) *auboirica* [ex Bourguignat ms]
Locard, 1890: *Contr. Faune Malac. Franç.* 14: 58, 172.

Anodonta (Groupe de l'*A. jourdheuli*) *auboisica* Locard, 1893a: *Coq. eaux douces saumâtres France*: 275. Incorrect subsequent spelling of *A. auboirica* (ICZN 1999: Art. 33.3).

No types were found in the Locard Collection.
Exemplar specimen MNHN 22119: Ingrandes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “L'Auboir (Cher) [Bourguignat]; les environs de Moulins (Allier) [Loc.]; etc.” (Locard 1890: 58).

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

autricensis Locard, 1890, *Anodonta*.

Anodonta (*Sturmiana*) *autricensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 55.

Anodonta autriciaca Locard, 1890: *Contr. Faune Malac. Franç.* 14: 165. Incorrect original spelling, as indicated by Locard's (1893a) use of the correct spelling (ICZN 1999: Art. 32.2.1).

Holotype (monotypy) MNHN 22120: the Eure, at Chartres [Dept. Eure-et-Loire, Seine Basin].

= *Anodonta* (Groupe de l'*A. sturmi*) *autricensis* – Locard 1893a: 271.

+ *Anodonta anatina* var. *chresimella* – Germain 1931: 760.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

avenionensis Locard, 1890, *Anodonta*.

Anodonta (*Milletiana*) *avenionensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 76, 209.

Lectotype (here designated) MNHN 22121: the Rhône, at Villeneuve-lès-Avignon [Dept. Gard, Rhône Basin].

= *Anodonta* (Groupe de l'*A. miletti* [sic]) *avenionensis* – Locard 1893a: 298, fig. 287†.

+ *Anodonta subrbombea* – Germain 1931: 773.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***baicheri* Baichère, 1890, *Unio*.**

Unio baicheri [ex Locard ms] Baichère, 1890: *Bull. Soc. Malac. France* 7: 119.

No specimens were found in the Locard Collection. The measured syntype may be in the Baichère Collection (whereabouts unknown). Published locality, “... ruisseau de la Preuille à Brame (Aude).” (Locard 1893a: 186).

= *Unio* (Groupe de l'*U. amblyus*) *baicheri* – Locard 1893a: 186.

+ *Unio villae* – Germain 1931: 735.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***balbignyanus* Locard, 1889, *Unio*.**

Unio (Ateriana) balbignyanus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 41, 111.

Lectotype (here designated) MNHN 22122 and paralectotypes MNHN 22123 (3 spec.): the Loire, at Balbigny [Dept. Loire, Loire Basin]. Paralectotype MNHN 22124: Saint-Germain-des-Fossés [Dept. Allier, Loire Basin]. Paralectotypes MNHN 22125 (2 spec.): the “Mandreze,” at Saulcy-sur-Meurthe [Dept. Vosges, Rhin basin]. Paralectotype MNHN 22126: the Loire at Villerest [Dept. Loire, Loire Basin].

= *Unio balbignyanus* – Westerlund 1890: 68.

= *Unio* (Groupe de l'*U. ater*) *balbignyanus* – Locard 1893a: 178.

+ *Unio consentaneus* – Germain 1931: 732.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***batavellus* Locard, 1885, *Unio*.**

Unio batavellus [ex Letourneux ms] Locard, 1885: *Bull. Soc. Sci. Nat. Rouen* 21: 11.

Lectotype (here designated) MNHN 22127: La Bouille, near Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotypes MNHN 22128 (3 spec.): the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin].

= *Unio (Batavusiana) batavellus* – Locard 1889: 38.

= *Unio batavellus* – Westerlund 1890: 78.

= *Unio* (Groupe de l'*U. batavus*) *batavellus* – Locard 1893a: 170, fig. 184†.

+ *Unio batavus* var. *baraceus* – Germain 1931: 729.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 49.

***berenguieri* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. Bereguieri*) *berenguieri* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 292, 361.

Syntypes MNHN 22129 (2 spec.): the Grand Béal at Roquebrune-sur-Argens [Dept. Var, Argens Basin].

= *Unio (Berenguieriana) berenguieri* – Locard 1889: 47.

= *Unio berenguieri* – Béranguier 1882: 100; Westerlund 1890: 119.

= *Unio* (Groupe de l'*U. turtoni*) *berenguieri* – Locard 1893a: 182.

+ *Unio turtoni* – Germain 1931: 730.

***berilloni* Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. rostratus*) *berilloni* Locard, 1882: *Prodr. Malac. Franç.* 1: 298, 365.

Lectotype (here designated) MNHN 22130: Lake Ondres, Ondres [Dept. Landes, Boudigau Basin].

= *Unio (Rostratiana) berilloni* – Locard 1889: 68.

= *Unio berilloni* – Westerlund 1890: 109.

= *Unio* (Groupe de l'*U. maximus*) *berilloni* – Locard 1893a: 212.

+ *Unio tumidus* – Germain 1931: 741.

+ *Unio pictorum platyrhynchoideus* [sic] – Haas 1940: 123; 1969: 27.

***berryacensis* Dumas in Locard, 1894, *Pseudanodonta*.**

Pseudanodonta berryacensis Dumas in Locard, 1894: *Rev. Sci. Bourbonnais*: 66, fig. 2†.

Pseudanodonta berryacensis Dumas, 1895: *Rev. Sci. Bourbonnais, Suppl.*: 63, pl. 19, fig. 2†.

Lectotype (here designated) figured specimen (not seen) and paralectotype MNHN 22131: Canal du Berry [Dept. Allier, Loire Basin].

+ *Pseudanodonta elongata* var. *dumasi* – Germain 1931: 748.

+ *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***berthelini* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. fuscus*) *berthelini* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 290, 359.

No types were found in the Locard Collection. Exemplar specimen MNHN 22132: the Marne, at Charenton-le-Pont [Dept. Val-de-Marne, Seine Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “Déversoir de Croncels, à Troyes, dans l’Aube (Bourguignat).” (Locard 1882: 290).

= *Unio* (*Amnicusiana*) *berthelini* – Locard 1889: 31.

= *Unio berthelini* – Westerlund 1890: 91.

= *Unio* (Groupe de l'*U. amnicus*) *berthelini* – Locard 1893a: 163.

+ *Unio mancus* var. *amnicus* form *riparius* – Germain 1931: 726.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

***besnardianus* Bourguignat in Locard, 1889, *Unio*.**

Unio ovalis [non Montagu, 1803] – Dupuy 1852: *Hist. Natur. Moll. France* 6: pl. 25, fig. 13.

“*Unio besnardianus*” Servain, 1888: *Bull. Soc. Malac. France* 5: 317. Nude name, unavailable (ICZN 1999: Art. 12.1).

Unio (*Batavusiana*) *besnardianus* [ex Servain ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 35, 100.

Unio besnardinus “Servain” – Locard 1893a: *Coq. eaux douces saumâtres France*: 172, fig. 186†. Incorrect subsequent spelling of *U. besnardianus* (ICZN 1999: Art. 33.3).

Lectotype (here designated) MNHN 22133: the Loire, at Sainte-Gemmes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. Paralectotype MNHN 22134: the Saône [Dept. Côte-d’Or, Rhône Basin].

= *Unio besnardianus* – Westerlund 1890: 76.

= *Unio* (Groupe de l'*U. batavus*) *besnardinus* [sic] – Locard 1893a: 172.

+ *Unio batavus* – Germain 1931: 728.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 49.

***bisuntiensis* Locard, 1890, *Anodonta*.**

Anodonta (*Camuriana*) *bisuntiensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 66, 185.

Lectotype (here designated) MNHN 22135: Varennes-Saint-Sauveur [Dept. Saône-et-Loire, Rhône Basin].

= *Anodonta* (Groupe de l'*A. anatina*) *bisuntiensis* – Locard 1893a: 284.

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

***blaca* Locard, 1890, *Anodonta*.**

Anodonta (*Rossmässleriana*) *blaca* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 53, 159.

Lectotype (here designated) MNHN 22136 and paralectotypes MNHN 22137 (2 spec.): Nantes [Dept. Loire-Atlantique, Loire Basin].

= *Anodonta* (Groupe de l'*A. rossmassleriana*) *blaca* – Locard 1893a: 268.

+ *Anodonta intermedia* – Germain 1931: 769.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***borboraeca* Bourguignat in Locard, 1882, *Anodonta*.**

Anodonta (Groupe de l'*A. spengleri*) *borboraeca* [ex Servain ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 280, 352.

Anodonta (*Spondaeana*) *barboraeca* “Servain” – Locard 1890: *Contr. Faune Malac. Franç.* 14: 48. Incorrect subsequent spelling of *A. borboraeca* (ICZN 1999: Art. 33.3).

No types were found in the Locard Collection. Exemplar specimen MNHN 22138: Montaigu [Dept. Vendée, Loire Basin]. The measured syntype is presumed to be in either the Servain or Bourguignat collection. Published locality, “Juigné-sur-Loire, dans le Maine-et-Loire (Bourguignat).” (Locard 1882: 280).

= *Anodonta* (*Euanodonta*) *borboraeca* – Westerlund 1890: 282.

= *Anodonta* (Groupe de l'*A. carvalhopsis*) *barboraeca* [sic] – Locard 1893a: 261.

+ *Anodonta intermedia* – Germain 1931: 769.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 339.

***bouchardi* Locard, 1889, *Unio*.**

Unio arcuata Bouchard-Chantereaux non Jacquemin, 1838, *Cat. Moll. Terr. Fluv. Départ. Pas-de-Calais*: pl. 1, figs 1, 2†. Junior homonym of *U. arcuata* Jacquemin, 1835 (ICZN 1999: Art. 57.2).

Unio (*Ateriana*) *bouchardi* [ex Bourguignat ms] Locard, 1889, *Contr. Faune Malac. Franç.* 13: 43. Replacement name introduced to remove homonymy with *U. arcuata* Jacquemin, 1835.

Lectotype (here designated) figured specimen (not seen): ditches of Saint-Omer, fed by the Aa [Dept. Pas-de-Calais, Aa Basin]. No specimens were found in the Locard Collection.

+ *Unio arcuatus* – Westerlund 1890: 180.

= *Unio* (Groupe de l'*U. ater*) *bouchardi* – Locard 1893a: 180.

+ *Unio consentaneus* var. *moquini* – Germain 1931: 734.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***bourgeticus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. mancus*) *bourgeticus*, 1882: *Prodr. Malac. Franç.* 1: 291, 359.

Possible syntypes MNHN 22139 (4 spec.): Lake Le Bourget [Dept. Savoie, Rhône Basin].

= *Unio* (*Mancusiana*) *bourgeticus* – Locard 1889: 24.

= *Unio mancus* var. *bourgeticus* – Westerlund 1890: 85.

= *Unio* (Groupe de l'*U. mancus*) *bourgeticus* – Locard 1893a: 156.

+ *Unio mancus* – Germain 1931: 724.

= *Unio elongatulus bourgeticus* – Haas 1940: 125; 1969: 34.

= *Unio* (s.s.) *mancus bourgeticus* – Falkner et al. 2001: 67; 2002: 55.

***bouvieri* Rochebrune, 1903, *Anodonta*.**

Anodonta bouvieri [ex Locard ms] Rochebrune, 1903: *Bull. Mus. Hist. Nat.* 9: 392.

Syntype MNHN 22140: the Argent-Or (near Champagne-Mouton) [Dept. Charente, Charente Basin].

+ *Anodonta avonensis* var. *carvalhoi* – Germain 1931: 766.

+ *Anodonta cygnea* – Haas 1940: 137; 1969: 349.

***brebissoni* Locard, 1890, *Anodonta*.**

Anodonta (*Ponderosiana*) *brebissoni* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 42, 139.

Holotype (monotypy) MNHN 22141: Condé-Folie [Dept. Somme, Somme Basin].

= *Anodonta* (Groupe de l'*A. subponderosa*) *brebissoni* – Locard 1893a: 254.

?= *Anodonta brebissoni* – Germain 1931: 756.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***brebissoni* Locard, 1890, *Pseudanodonta*.**

Pseudanodonta (*Elongatiana*) *brebissoni* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 18, 104.

Lectotype (here designated) MNHN 22142: the Orne, at Caen [Dept. Calvados, Orne Basin].

= *Pseudanodonta* (Groupe du *P. elongata*) *brebissoni* – Locard 1893a: 226.

= *Pseudanodonta brebissoni* – Germain 1931: 749.

+ *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***brebissoni* Locard, 1889, *Unio*.**

Unio pictorum [non *Mya pictorum* Linnaeus, 1758] – l'Hôpital 1859: *Cat. moll. env. Caen*: 62, variété 3.

Unio (*Brebissonianana*) *brebissoni* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 46, 117.

Lectotype (here designated) MNHN 22143 and paralectotype MNHN 22144: the Aure, at Bayeux [Dept. Calvados, Vire Basin].

= *Unio brebissoni* – Westerlund 1890: 156.

= *Unio* (Groupe de l'*U. amblyus*) *brebissoni* – Locard 1893a: 185, fig. 199†.

+ *Unio villae* – Germain 1931: 735.

+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

brevierei Locard, 1882, *Unio*.

Unio requieni [non Michaud, 1831] – Brevière 1880: *Cat. Moll. Nièvre*: 26.

Unio moquinianus [non Dupuy, 1843] – Brevière 1880: *Cat. Moll. Nièvre*: 26.

Unio (Groupe de l'*U. brevieri*) *brevieri* [ex Bourguignat ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 286. Incorrect original spelling of *U. brevieri*, as indicated by Locard's (1889, 1893a) use of the correct spelling (ICZN 1999: Art. 32.2.1).

Unio brevieri Locard, 1882: *Prodr. Malac. Franç.* 1: 356.

Lectotype (here designated) MNHN 22145: the Canne, at "Goulnot" [Dept. Nièvre, Loire Basin]. Paralectotype MNHN 22147: "marais de Dampierre" [Dept. Ain].

= *Unio (Ateriana) brevieri* – Locard 1889: 42.

= *Unio brevieri* – Westerlund 1890: 67.

= *Unio* (Groupe de l'*U. ater*) *brevierei* – Locard 1893a: 178.

+ *Unio consentaneus* – Germain 1931: 732.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

brindosopsis Locard, 1889, *Unio*.

Unio (Turtoniana) brindosopsis Locard, 1889: *Contr. Faune Malac. Franç.* 13: 45, 115.

Lectotype (here designated) MNHN 22148: the Vienne, at Limoges [Dept. Haute-Vienne, Loire Basin]. Paralectotypes MNHN 22149 and MNHN 22150: the Loire, at Balbigny [Dept. Loire, Loire Basin]. Paralectotype MNHN 22151: Vienne [Dept. Isère, Rhône Basin].

= *Unio brindosopsis* – Westerlund 1890: 162.

= *Unio* (Groupe de l'*U. turtoni*) *brindosopsis* – Locard 1893a: 184, fig. 197†.

+ *Unio turtoni* var. *philippeii* [sic] – Germain 1931: 732.

burgundina Locard, 1890, *Anodonta*.

Anodonta (Arealiana) burgundina Locard, 1890: *Contr. Faune Malac. Franç.* 14: 63, 180.

Lectotype (here designated) MNHN 22152: Varennes-Saint-Sauveur [Dept. Saône-et-Loire,

Rhône Basin]. Paralectotype MNHN 22153: Indre [Dept. Loire-Atlantique, Loire Basin].

= *Anodonta* (Groupe de l'*A. anatina*) *burgundina* – Locard 1893a: 281, fig. 273.

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

cadomensis Locard, 1890, *Anodonta*.

Anodonta (Vietuliana) cadomensis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 38, 129.

Lectotype (here designated) MNHN 22154: the Orne, at Caen [Dept. Calvados, Orne Basin].

= *Anodonta* (Groupe de l'*A. glyca*) *cadomensis* – Locard 1893a: 248, fig. 251.

+ *Anodonta avonensis* forme *subponderosa* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

caletengis Locard, 1890, *Anodonta*.

Anodonta (Intermediana) caletengis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 50, 154.

Lectotype (here designated) MNHN 22155: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin].

= *Anodonta* (Groupe de l'*A. intermedia*) *caletengis* – Locard 1893a: 264, fig. 260.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

callosaeformis Locard, 1890, *Anodonta*.

Anodonta (Briandiana) callosaeformis [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 75, 207.

Anodonta (Groupe de l'*A. avonica*) *callosiformis* "Servain" – Locard 1893a: *Coq. eaux douces saumâtres France*: 296. Incorrect subsequent spelling of *A. callosaeformis* (ICZN 1999: Art. 33.3).

No specimens were found in the Locard Collection. The measured syntype is presumed to be in either the Servain or Bourguignat collection. Published localities, "La Loire, au port Thibaut, près Angers (Maine-et-Loire) [Servain, Bourguignat]; la Seine,

à Châtillon-sur-Seine (Côte-d'Or); la Saône, à Villevert et à Fontaine-sur-Saône (Rhône) [Loc.]; etc." (Locard 1890: 75).

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

campyla Locard, 1884, *Anodonta*.

Anodonta (*Ponderosina*) [*sic*] *campyla* [ex Bourguignat ms] Locard, 1884: *Contr. Faune Malac. Franç.* 8: 32.

No types were found in the Locard Collection. Exemplar specimen MNHN 22156: the Tarn, at Albi [Dept. Tarn, Garonne Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "... de Lons-le-Saulnier, dans le Jura..." (Locard 1884: 33).

= *Anodonta* (*Euanodonta*) *campyla* – Westerlund 1890: 236.

= *Anodonta* (*Ponderosiana*) *campyla* – Locard 1890: 44.

= *Anodonta* (Groupe de l'*A. curta*) *campyla* – Locard 1893a: 257.

= *Anodonta rostrata* var. *campyla* – Germain 1931: 768.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

campylus Bourguignat in Locard, 1889, *Unio*.

Unio (*Cyrtusiana*) *campylus* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 59, 137.

Lectotype (here designated) MNHN 22157: the Sèvre Nantaise, near Mortagne-sur-Sèvre [Dept. Vendée, Loire Basin]. Paralectotypes MNHN 22158 (2 spec.): the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin].

= *Unio campylus* – Westerlund 1890: 124.

= *Unio* (Groupe de l'*U. gestroianus*) *campylus* – Locard 1893a: 197.

+ *Unio requieni* – Germain 1931: 736.

+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

cancrorum Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. gallicus*) *cancrorum* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 296, 365.

Lectotype (here designated) MNHN 22159: the Saône, at Heuilley-sur-Saône [Dept. Côte-d'Or,

Rhône Basin]. Paralectotype MNHN 22160: the Canal du Nivernais, at Bazolles [Dept. Nièvre, Seine-Loire basins]. Paralectotype MNHN 22161: the Loire at Villerest [Dept. Loire, Loire Basin].

= *Unio* (*Joannisiana*) *cancrorum* – Locard 1889: 57.

?= *Unio cancrorum* – Westerlund 1890: 129.

= *Unio* (Groupe de l'*U. gestroianus*) *cancrorum* – Locard 1893a: 195.

= *Unio* (groupe de l'*U. joannisi*) *cancrorum* – Locard 1899: 237.

+ *Unio requieni* var. *porneae* – Germain 1931: 738.

+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

carantoni Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. falsus*) *carantoni* [ex Coutagne ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 295, 364.

No types were found in the Locard Collection. Exemplar specimen MNHN 22162: (illegible) [Dept. Charente, Charente Basin?]. The type series is presumed to be in either the Bourguignat or Coutagne collection. Published locality, "Angoulême, dans la Charente (Bourguignat, col. Coutagne)." (Locard 1882: 295).

= *Unio* (*Mancusiana*) *carantoni* – Locard 1889: 23.

= *Unio carantoni* – Westerlund 1890: 87.

= *Unio* (Groupe de l'*U. mancus*) *carantoni* – Locard 1893a: 157.

+ *Unio mancus* var. *amnicus* – Germain 1931: 726.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

cariosula Locard, 1890, *Anodonta*.

Anodonta (*Cygnaeana*) *cariosula* [ex Ancey ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 30, 114.

Syntype MNHN 22163: "Montagu" [= Montagu, Dept. Vendée, Loire Basin]. Syntype MNHN 22165: Charolles [Dept. Saône-et-Loire, Loire Basin]. Syntype MNHN 22166: Fallavier Pond [Dept. Isère, Rhône Basin]. The measured syntype may be in the Ancey or Bourguignat collection. Published localities, "Canal de l'Ille, à Rennes (Ille-et-Vilaine) [Ancey, Bourguignat]; Montagu (Vendée); étangs d'Allas-Bocage (Charente-Inférieure); l'Aronce, à Charolles; la Grosne, à Cluny (Saône-et-Loire); étang de Falavier (Isère); fossés du fort de la Vitriolerie, à Lyon; la lône Béchevelin; le

Rhône, à la Mulatière (Rhône); le lac d'Aiguebelette; le lac Saint-Clair, près la Rochette (Savoie) [Loc.]; etc.” (Locard 1890: 30, 31).

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *cariosula* – Locard 1893a: 239.

+ *Anodonta cygnaea* [sic] – Germain 1931: 752.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

caroliensis Bourguignat in Locard, 1889, *Unio*.

Unio (*Mariana*) *caroliensis* [ex F. Pacôme ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 53, 131.

Lectotype (here designated) MNHN 22617: Charolles [Dept. Saône-et-Loire, Loire Basin].

= *Unio caroliensis* – Westerlund 1890: 134.

= *Unio* (Groupe de l'*U. batavus*) *caroliensis* – Locard 1893a: 172.

+ *Unio batavus* – Germain 1931: 728.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

carvalhopsis Locard, 1890, *Anodonta*.

Anodonta (*Carvalhoiana*) *carvalhopsis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 46, 142.

Lectotype (here designated) MNHN 22168 and paralectotypes MNHN 22170 (2 spec.): the Reys-souze, near Bourg-en-Bresse [Dept. Ain, Rhône Basin]. Paralectotype MNHN 22169: “Bois-Vieux” [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. carvalhopsis*) *carvalhopsis* – Locard 1893a: 258, fig. 256†.

+ *Anodonta avonensis* var. *carvalhoi* – Germain 1931: 765.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

catalaunicus Bourguignat in Locard, 1889, *Unio*.

Unio (*Fusculusiana*) *catalaunicus* [ex Coutagne ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 27, 86.

Lectotype (here designated) MNHN 22171: the Marne, at Charenton-le-Pont [Dept. Val-de-Marne, Seine Basin].

= *Unio catalaunicus* – Westerlund 1890: 82.

= *Unio* (Groupe de l'*U. fusculus*) *catalaunicus* – Locard 1893a: 160.

+ *Unio crassus* var. *piscinalis* – Germain 1931: 724.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

catinulus Locard, 1893, *Unio*.

Unio catinulus Locard, 1893b: *Bull. Soc. Sci. Nat. Elbeuf* 12: 10.

Syntype MNHN 22172: the Seine at Elbeuf [Dept. Seine-Maritime, Seine Basin].

= *Unio* (Groupe de l'*U. tumidus*) *catinulus* – Locard 1893a: 217.

+ *Unio tumidus* – Germain 1931: 741.

catocyrtia Locard, 1890, *Anodonta*.

Anodonta (*Gravidiana*) *catocyrtia* [ex Coutagne ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 21, 106.

Lectotype (here designated) MNHN 22173: the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin].

= *Anodonta* (Groupe de l'*A. stagnalis*) *catocyrtia* – Locard 1893a: 229.

+ *Anodonta cygnaea* [sic] – Germain 1931: 752.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 343.

catula Locard, 1890, *Anodonta*.

Anodonta (*Ellipsopsiana*) *catula* [ex Coutagne ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 34, 123.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Laignes, aux Riceys (Aube) [Bourguignat].” (Locard 1890: 34).

= *Anodonta* (Groupe de l'*A. ellipsopsis*) *catula* – Locard 1893a: 244.

+ *Anodonta anatina* – Germain 1931: 759.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

caumonti Bourguignat in Locard, 1889, *Unio*.

Unio (*Batavusiana*) *caumonti* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 39, 101.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Seine, à Caumont (Eure) [Bourguignat].” (Locard 1889: 39).

- = *Unio caumonti* – Westerlund 1890: 79.
- = *Unio* (Groupe de l'*U. batavus*) *caumonti* – Locard 1893a: 171.
- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

cazioti Bourguignat in Locard, 1890,
Pseudanodonta.

“*Pseudanodonta cazioti*” Servain, 1890: *Bull. Soc. Malac. France* 7: 302. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (Elongatiana) cazioti Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 17, 101.

Possible syntype MNHN 22174: the Saône, at Auxonne [Dept. Côte-d’Or, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection.

- = *Pseudanodonta* (Groupe du *P. elongata*) *cazioti* – Locard 1893a: 225.
- + *Pseudanodonta dorsuosa* – Germain 1931: 749.
- + *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

*chardon*i Locard, 1893, *Unio*.

Unio (Groupe de l'*U. batavus*) *chardon*i [ex Bourguignat ms] Locard, 1893a: *Coq. eaux douces saumâtres France*: 173.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “... Charolles (Saône-et-Loire).” (Locard 1893a: 173).

- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

charpyi Bourguignat, 1881, *Anodonta*.

Anodonta (Ventricosiana) charpyi [ex Dupuy ms] Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 127.

Syntypes MNHN 22175 (18 spec.): the Drugeon [Dept. Doubs, Rhône Basin].

- = *Anodonta (Ventricosiana) charpyi* – Locard 1890: 23.
- = *Anodonta* (Groupe de l'*A. ventricosa*) *charpyi* – Locard 1882: 268; 1899: 264.
- = *Anodonta (Euanodonta) charpyi* – Westerlund 1890: 207.
- = *Anodonta* (Groupe de l'*A. stagnalis*) *charpyi* – Locard 1893a: 232.
- + *Anodonta cygnaea* [sic] – Germain 1931: 752.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 334.

chresimella Locard, 1890, *Anodonta*.

Anodonta (Sturmiana) chresimella [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 55, 164.

Lectotype (here designated) MNHN 22176: the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22177: Varennes-Saint-Sauveur [Dept. Saône-et-Loire, Rhône Basin].

- = *Anodonta (Sturmiana) chresimella* Locard 1890: 55.
- = *Anodonta* (Groupe de l'*A. sturmi*) *chresimella* – Locard 1893a: 271.
- = *Anodonta anatina* var. *chresimella* – Germain 1931: 760.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

circulus Locard, 1890, *Anodonta*.

Anodonta (Milletiana) circulus [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 77, 213.

Lectotype (here designated) MNHN 22179: the Seine, at Orival [Dept. Seine-Maritime, Seine Basin].

- = *Anodonta* (Groupe de l'*A. arnouldi*) *circulus* – Locard 1893a: 309, fig. 297†.
- + *Anodonta maculata* – Germain 1931: 771.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

circulus Locard, 1893, *Unio*.

Unio (Groupe de l'*U. rhomboideus*) *circulus* [ex Bourguignat ms] Locard non Lea, 1893a: *Coq. eaux douces saumâtres France*: 153. Junior primary homonym of *U. circulus* Lea, 1829 = *Obovaria subrotunda* (Rafinesque, 1820) *fide* Parmalee & Bogan (1998) (ICZN 1999: Art. 57.2).

No specimens were founded in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “...

l'Arconce, la Saône dans Saône-et-Loire." (Locard 1893a: 153).

- + *Psilunio littoralis* – Germain 1931: 720.
- + *Psilunio littoralis littoralis* – Haas 1940: 134.
- + *Potomida littoralis littoralis* – Haas 1969: 272.

***coenosella* Locard, 1890, *Anodonta*.**

Anodonta (Incrassatiana) coenosella [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 47, 148.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "Le Beaureplet, près Saint-Saulge (Nièvre) [Bourguignat]." (Locard 1890: 47).

- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *coenosella* – Locard 1893a: 261.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***condatinus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. saint-simonianus*) *condatinus* [ex Letourneux ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 287, 356.

No types were found in the Locard Collection. Exemplar specimen MNHN 22180: the Maine at Cholet [Dept. Maine-et-Loire, Loire Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, "Le canal, à Rennes, dans l'Ille-et-Vilaine; la Seine, au Pecq, dans Seine-et-Oise (Bourguignat)." (Locard 1882: 287).

- = *Unio (Saint-Simoniana) condatinus* – Locard 1889: 52.
- ?= *Unio condatinus* – Westerlund 1890: 163.
- = *Unio* (Groupe de l'*U. gallicus*) *condatinus* – Locard 1893a: 189.
- + *Unio requieni* – Germain 1931: 736.
- + *Unio elongatulus mancus* – Haas 1940: 126; 1969: 36.

***corbini* Bourguignat in Locard, 1882, *Unio*.**

Unio pictorum var. *longirostris* [non Rossmässler, 1836] – de Joannis 1859: *Ann. Soc. Linn. Maine-et-Loire* 3: pl. 12, fig. 3.

Unio (Groupe de l'*U. danielis*) *corbini* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 293, 362.

Possible syntype MNHN 22181: the "Étang d'Église-Vieille," near Le Porge [Dept. Gironde, minor coastal basin]. The type series may be in the Bourguignat Collection. Published localities, "Les eaux thermales de Barbottan, dans le Ger; l'Étang d'Église-Vieille, près de la Porge, dans la Gironde (Bourguignat), etc." (Locard 1882: 294).

- = *Unio (Hispaniana) corbini* – Locard 1889: 64.
- = *Unio corbini* – Westerlund 1890: 109.
- = *Unio* (Groupe de l'*U. danielis*) *corbini* – Locard 1893a: 199.
- + *Unio requieni* var. *danielis* – Germain 1931: 739.
- + *Unio pictorum platyrhynchoideus* [sic] – Haas 1940: 123; 1969: 27.

***crassatellus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. crassus*) *crassatellus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 286, 356.

Lectotype (here designated) MNHN 22182: the Canne, at Jailly [Dept. Nièvre, Loire Basin]. Paralectotypes MNHN 22183 (4 spec.): the Drée at Épinac [Dept. Saône-et-Loire, Loire Basin]. Paralectotype MNHN 22184: the Drée [Dept. Saône-et-Loire, Loire Basin].

- = *Unio (Crassiana) crassatellus* – Locard 1889: 30.
- = *Unio* (Groupe de l'*U. feliciani*) *crassatellus* – Locard 1893a: 162.
- + *Unio crassus* – Germain 1931: 722.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

***cyprinorum* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. batavus*) *cyprinorum* [ex Berthier ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 358.

No types were found in the Locard Collection. Exemplar specimen MNHN 22185: the Ornain [Dept. Meuse, Seine Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, "La Seine, à Chatou, en Seine-et-Oise (Bourguignat)." (Locard 1882: 289).

- = *Unio (Batavusiana) cyprinorum* – Locard 1889: 36.
- = *Unio batavus* var. *cyprinorum* – Westerlund 1890: 76.

- = *Unio* (Groupe de l'*U. batavus*) *cyprinorum* – Locard 1893a: 168.
- + *Unio batavus* – Germain 1931: 727.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.
- = *Crassiana* (*Bataviana*) *cyprinorum* – Starobogatov et al. 2004: 37.
- = *Crassiana cyprinorum* – Kantor & Sysoev 2005: 330.

danemorae Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. ater*) *danemorae* [ex Mörch ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 284, 354.

No types were found in the Locard Collection. Exemplar specimen MNHN 22186: Lake Ondres, Ondres [Dept. Landes, Boudigau Basin]. Published localities, “La Mandray, à Saulcy-sur-Meurthe, dans les Vosges; la Canne, à Goulnot, dans la Nièvre (Nob.).” (Locard 1882: 284).

- = *Unio* (*Ateriana*) *danemorae* – Locard 1889: 41.
- = *Unio* (Groupe de l'*U. ater*) *danemorae* – Locard 1893a: 177.
- + *Unio consentaneus* – Germain 1931: 732.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

debonesta Locard, 1890, *Anodonta*.

Anodonta (*Cygnaeana*) *debonesta* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 33, 119.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in either the Servain or Bourguignat collection. Published locality, “Le lac de Grandlieu (Loire-Inférieure) [Servain, Bourguignat].” (Locard 1890: 33).

- = *Anodonta* (*Cygnaeana*) *debonesta* Locard 1890: 33.
- = *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *debonesta* – Locard 1893a: 242.
- + *Anodonta cygnaea* [sic] – Germain 1931: 752.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

delicatula Locard, 1890, *Anodonta*.

Anodonta (*Cygnaeana*) *delicatula* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 33, 122.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in either the Servain or Bourguignat collection. Published

localities, “Le lac de Grandlieu [Servain, Bourguignat]; la Loire, près Nantes (Loire-Inférieure); la Saône, à Rochetaillée et à Fontaine-sur-Saône (Rhône) [Loc.]; etc.” (Locard 1890: 33).

- = *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *delicatula* – Locard 1893a: 242.
- + *Anodonta anatina* – Germain 1931: 759.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

deperetiana Locard, 1890, *Anodonta*.

Anodonta (*Milletiana*) *deperetiana* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 76, 208.

Holotype (monotypy) MNHN 22187: the Tech, south of Perpignan [Dept. Pyrénées-Orientales, Tech Basin].

- = *Anodonta* (Groupe de l'*A. miletti* [sic]) *deperetiana* – Locard 1893a: 297.
- = *Anodonta subrhombea* var. *depereti* [sic] – Germain 1931: 773.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

desmoulinsiana Locard, 1882, *Anodonta*.

Anodonta moulinsiana Dupuy, 1851: *Hist. Natur. Moll. France* 4: 616, pl. 20, fig. 19.

Anodonta (Groupe de l'*A. cygnaea* [sic]) *desmoulinsiana* Locard, 1882: *Prodr. Malac. Franç.* 1: 271. Unjustified emendation of *A. moulinsiana* Dupuy (ICZN 1999: Art. 33.2.3).

Syntypes MNHN 24473 (2 spec.): “les étangs de Cazaux,” near Aureillan [Dept. Landes, minor coastal basin].

- = *Anodonta* (*Euanodonta*) *moulinsiana* – Westerlund 1890: 217.
- = *Anodonta* (*Cygnaeana*) *desmoulinsiana* – Locard 1890: 27.
- = *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *desmoulinsiana* – Locard 1893a: 235, fig. 242.
- + *Anodonta cygnaea* [sic] – Germain 1931: 752.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 331.

dinellina Locard, 1890, *Anodonta*.

Anodonta (*Ponderosiana*) *dinellina* [ex Mabille ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 43, 140.

Syntype MNHN 22188: the Drée at Épinac [Dept. Saône-et-Loire, Loire Basin]. Syntype MNHN 22189: Saint-Laurent-sur-Saône, near Mâcon [Dept. Ain, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “La Rance, à Dinan (Côtes-du-Nord) [Mabille, Bourguignat]; bassins de Saint-Laurent, près Mâcon (Ain); la Loire, à Basse-Indre et aux environs de Nantes (Loire-Inférieure); la Drée, à Epinac (Saône-et-Loire); [Loc.]; etc.” (Locard 1890: 43).

= *Anodonta* (Groupe de l'*A. subponderosa*) *dinellina* – Locard 1893a: 255.

+ *Anodonta intermedia* – Germain 1931: 769.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

diptychus Bourguignat in Locard, 1889, *Unio*.

Unio (*Batavusiana*) *diptychus* [ex Surrault ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 37, 95.

Possible syntype MNHN 22192: the Loire, Ingrandes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Loire, près d’Ingrande (Maine-et-Loire) [Bourguignat].” (Locard 1889: 37).

= *Unio diptychus* – Westerlund 1890: 78.

= *Unio* (Groupe de l'*U. batavus*) *diptychus* – Locard 1893a: 169.

+ *Unio batavus* – Germain 1931: 727.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

divinita Locard, 1890, *Anodonta*.

Anodonta (*Incrassatiana*) *divinita* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 47, 147.

No types were found in the Locard Collection. Exemplar specimen MNHN 22193: the Loire, at Balbigny [Dept. Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “Le Beaufort, près Saint-Saulge (Nièvre) [Bourguignat].” (Locard 1890: 47).

= *Anodonta* (Groupe de l'*A. carvalhopsis*) *divinita* – Locard 1893a: 260.

+ *Anodonta intermedia* – Germain 1931: 769.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

doeopsis Locard, 1890, *Anodonta*.

Anodonta (*Glyciana*) *doeopsis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 36, 128.

Lectotype (here designated) MNHN 22194: “Bois-Vieux” [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22195: Varennes-Saint-Sauveur [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22196: Saint-Laurent-sur-Saône [Dept. Ain, Rhône Basin].

= *Anodonta* (Groupe de l'*A. glyca*) *doeopsis* – Locard 1893a: 247, fig. 250†.

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

dolfusianus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. bardus*) *dolfusianus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 299, 366.

Unio (*Holandriana*) *dolfusianus* Bourguignat – Locard 1889: *Contr. Faune Malac. Franç.* 13: 61. Incorrect subsequent spelling of *U. dolfusianus* (ICZN 1999: Art. 33.3).

No types were found in the Locard Collection. Exemplar specimen MNHN 22197: the Oise at Creil [Dept. Oise, Seine Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, “La Seine, au-dessous de Paris, notamment à Poissy, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 299).

= *Unio dolfusianus* – Westerlund 1890: 107.

= *Unio* (Groupe de l'*U. danielis*) *dolfusianus* – Locard 1893a: 200, fig. 214.

+ *Unio requieni* – Germain 1931: 736.

+ *Unio pictorum pictorum* – Haas 1940: 121.

dubisianus Locard, 1882, *Unio*.

Unio (Groupe de l'*U. mancus*) *dubisianus* [ex Coutagne ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 291. Incorrect original spelling, as indicated by Locard’s (1889, 1893a) subsequent usage (ICZN 1999: Art. 32.2.1).

Unio dubisianus [ex Coutagne ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 360.

Syntype MNHN 22198: the “Clange” [Dept. Jura, Rhône Basin]. The measured syntype is presumed to be in either the Bourguignat or Coutagne collection. Published localities, “La Loue, à Arc-Sennans (Bourguignat), la Clange, au Moulin-Roland dans le Jura (Bourguignat, col. Coutagne).” (Locard 1882: 291).

= *Unio (Mancusiana) dubisianus* – Locard 1889: 23.
 = *Unio dubisianus* – Westerlund 1890: 87.
 = *Unio* (Groupe de l'*U. mancus*) *dubisianus* – Locard 1893a: 158.
 + *Unio mancus* – Germain 1931: 724.
 + *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

dubisiopsis Locard, 1882, *Unio*.

Unio (Groupe de l'*U. mancus*) *dubisiopsis* [sic] Locard, 1882: *Prodr. Malac. Franç.* 1: 291. Incorrect original spelling.

Unio dubisiopsis Locard, 1882: *Prodr. Malac. Franç.* 1: 360. Original spelling.

Unio (Melasiana) dubisianopsis – Locard, 1889: *Contr. Faune Malac. Franç.* 13: 22; 1893a, *Cog. eaux douces saumâtres France*: 155. Incorrect subsequent spelling of *U. dubisiopsis* (ICZN 1999: Art. 33.3). However, this is the spelling generally applied by subsequent authors.

No specimens were found in the Locard Collection. Published locality, “La Clange, dans le Jura (Nob.).” (Locard 1882: 291).

= *Unio dubisianus* var. *dubisianopsis* – Westerlund 1890: 87.
 = *Unio* (Groupe de l'*U. melas*) *dubisianopsis* – Locard 1893a: 155.
 + *Unio mancus* var. *amnicus* – Germain 1931: 726.
 + *Unio crassus batavus* – Haas 1940: 130.

dumasi Locard, 1894, *Pseudanodonta*.

Pseudanodonta dumasi Locard, 1894: *Rev. Sci. Bourbonnais*: 64, fig. 1†.

Lectotype (here designated) figured specimen (not seen) and paralectotypes MNHN 22199 and

MNHN 22200: Canal du Berry [Dept. Allier, Loire Basin].

= *Pseudanodonta dumasi* – Dumas 1895: 63, pl. 19, fig. 1†.
 = *Pseudanodonta elongata* var. *dumasi* – Germain 1931: 748.
 + *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

edyus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. tumidus*) *edyus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 299, 367.

No specimens were found in the Locard Collection. The type series is presumed to be in the Bourguignat Collection. Published localities, “La Seine, entre Saint-Germain et Poissy, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 299).

= *Unio (Eydysiana) edyus* – Locard 1889: 71.
 = *Unio edyus* – Westerlund 1890: 100.
 = *Unio* (Groupe de l'*U. tumidus*) *edyus* – Locard 1893a: 215.
 + *Unio tumidus* – Germain 1931: 741.
 + *Unio tumidus tumidus* – Haas 1940: 128; 1969: 20.

elboviensis Locard, 1893, *Unio*.

Unio elboviensis Locard, 1893b: *Bull. Soc. Sci. Nat. Elbeuf* 12: 4.

No specimens were found in the Locard Collection. Published localities, “La Seine, en amont d’Elbeuf, au-dessous du barrage de Martot (Seine-Inférieure).” (Locard 1893a: 4).

= *Unio* (Groupe de l'*U. tumidus*) *elboviensis* – Locard 1893a: 215.
 + *Unio tumidus* – Germain 1931: 741.
 + *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

euthymeana Locard, 1884, *Anodonta*.

Anodonta (Ponderosina) [sic] *euthymeana* Locard, 1884: *Contr. Faune Malac. Franç.* 8: 27.

Lectotype (here designated) MNHN 22201: the Menthon [Dept. Ain, Rhône Basin].

= *Anodonta (Euanodonta) euthymeana* – Westerlund 1890: 235.
 = *Anodonta (Cygnaeana) euthymeana* – Locard 1890: 30.

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *euthymeana* – Locard 1893a: 237.
 + *Anodonta cygnaea* [sic] – Germain 1931: 753.
 + *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***euthymeana* Locard, 1889, *Unio*.**

Unio (*Vinceleusiana*) *euthymeana* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 60, 139.

Lectotype (here designated) MNHN 22202: the Saône at Collonges-au-Mont-d'Or [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22203: the Saône at Neuville-sur-Saône [Dept. Rhône, Rhône Basin].

= *Unio euthymeana* – Westerlund 1890: 123.
 = *Unio* (Groupe de l'*U. tumens*) *euthymeana* – Locard 1893a: 203.
 + *Unio batavus* – Germain 1931: 728.
 + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

***euthyme* Bourguignat in Locard, 1890, *Pseudanodonta*.**

“*Pseudanodonta euthyme*” Servain, 1890: *Bull. Soc. Malac. France* 7: 302. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Elongatiana*) *euthyme* [ex F. Pacôme ms] Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 16, 99.

Possible syntype MNHN 22204: [locality unknown]. The measured syntype is presumed to be in either the Pacôme or Bourguignat collection. Published localities, “La Saône, à Neuville-sur-Saône, Fleurieux, Trévoux, etc. (Rhône) [Bourguignat, F. Pacôme].” (Locard 1890: 16).

= *Pseudanodonta* (Groupe du *P. elongata*) *euthyme* – Locard 1893a: 223.
 + *Pseudanodonta dorsuosa* – Germain 1931: 749.
 + *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***exauratus* Locard, 1889, *Unio*.**

Unio (*Lemotheuxiana*) *exauratus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 39, 104.

Lectotype (here designated) MNHN 22206 and paralectotype MNHN 22207: the Siagne, west of Cannes [Dept. Alpes-Maritimes, Siagne Basin].

= *Unio exauratus* – Westerlund 1890: 83.
 = *Unio* (Groupe de l'*U. adonus*) *exauratus* – Locard 1893a: 175.
 + *Unio capigliolo* – Germain 1931: 729.
 + *Unio elongatulus turtoni* – Haas 1940: 125; 1969: 35.

***fabaeformis* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. renei*) *fabaeformis* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 294, 362.

Unio f (Groupe de l'*U. platyrhynchoideus*) *abiformis* Bourguignat – Locard 1893a: *Coq. eaux douces saumâtres France*: 188. Incorrect subsequent spelling of *U. fabaeformis* (ICZN 1999: Art. 33.3).

Possible syntype MNHN 22208: the Rhône at Arles [Dept. Bouches-du-Rhône, Rhône Basin]. Published locality, “Étang de Meyranne, près d’Arles, dans les Bouches-du-Rhône (Bourguignat).” (Locard 1882: 294).

= *Unio* (*Jacqueminiana*) *fabaeformis* – Locard 1889: 50.
 ?= *Unio fabaeformis* – Westerlund 1890: 129.
 + *Unio consentaneus* var. *jacquimini* – Germain 1931: 734.
 + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***fagoti* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. danielis*) *fagoti* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 294, 362.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “Lac d’Yrieu, dans les Landes (Bourguignat).” (Locard 1882: 294).

= *Unio* (*Hispaniana*) *fagoti* – Locard 1889: 65.
 = *Unio fagoti* – Westerlund 1890: 110.
 = *Unio* (Groupe de l'*U. danielis*) *fagoti* – Locard (1893a: 200).
 + *Unio requieni* var. *danielis* – Germain 1931: 739.
 + *Unio pictorum platyrhynchoideus* [sic] – Haas 1940: 123; 1969: 27.

***falsus* Bourguignat in Locard, 1882, *Unio*.**

Unio requieni [non Michaud, 1831] – Drouët 1857: *Naiades France*: pl. 7, fig. 1.

Unio (Groupe de l'*U. falsus*) *falsus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 295, 363.

Lectotype (here designated) MNHN 22209 and paralectotype MNHN 22210: the Bonde-Gendret (canal) near Troyes [Dept. Aube, Seine Basin]. Paralectotype MNHN 22211: La Fère [Dept. Aisne, Seine Basin]. Paralectotype MNHN 22212: the Canal du Midi, at Villefranche-de-Lauragais [Dept. Haute-Garonne, Aude Basin].

- = *Unio* (*Falsusiana*) *falsus* – Locard 1889: 55.
- = *Unio falsus* – Westerlund 1890: 138.
- = *Unio* (Groupe de l'*U. gestroianus*) *falsus* – Locard 1893a: 195, fig. 210.
- + *Unio requieni* var. *pornae* – Germain 1931: 738.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

fascellinus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. falsus*) *fascellinus* [ex Servain ms] Bourguignat in Locard 1882: *Prodr. Malac. Franç.* 1: 295, 364.

Syntype MNHN 22213: the Étang de Vaux [Dept. Nièvre, Loire Basin]. Syntype MNHN 22214: Villeneuve-d'Aval [Dept. Jura, Rhône Basin].

- = *Unio* (*Falsusiana*) *fascellinus* – Locard 1889: 56.
- = *Unio falsus* var. *fascellinus* – Westerlund 1890: 138.
- = *Unio* (Groupe de l'*U. gestroianus*) *fascellinus* – Locard 1893a: 196.
- + *Unio requieni* – Germain 1931: 736.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

fastigata Locard, 1890, *Anodonta*.

Anodonta (*Ovuliana*) *fastigata* [ex Bourguignat & Pechaud ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 67, 193.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “Lurcy-le-Bourg, Montapas, Saint-Maurice, près Saint-Saulge (Nièvre) [Bourguignat]; etc.” (Locard 1890: 67).

- = *Anodonta* (Groupe de l'*A. anatina*) *fastigata* – Locard 1893a: 286.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

feliciani Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. crassus*) *feliciani* Locard, 1882: *Prodr. Malac. Franç.* 1: 285, 355.

Possible syntype MNHN 22215: the Moselle (at Toul) [Dept. Meurthe-et-Moselle, Rhin basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, “La Seine, au Pecq et à Poissy, dans Seine-et-Oise (Bourguignat); la Moselle, à Metz (Bourguignat).” (Locard 1882: 285).

- = *Unio* (*Socardiana*) *feliciani* – Locard 1889: 28.
- = *Unio* (Groupe de l'*U. feliciani*) *feliciani* – Locard 1893a: 161, fig. 175; 1899: 217.
- + *Unio batavus* var. *baraceus* – Germain 1931: 729.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

financei Locard, 1890, *Anodonta*.

Anodonta (*Arrosiana*) *financei* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 47, 146.

Lectotype (here designated) MNHN 22216: “Bois-Vieux” [Dept. Jura, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *financei* – Locard 1893a: 259.
- + *Anodonta intermedia* – Germain 1931: 769.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

financei Locard, 1889, *Unio*.

Unio batavus var. *sinuatus* Charpentier non Lamarck, 1837: *Cat. Moll. Suisse* 2: pl. 2, fig. 21a, b†. Junior primary homonym of *U. sinuata* Lamarck, 1819 = *Margaritifera auricularia* (Spengler, 1793) *fide* Araujo *et al.* (2009a) (ICZN 1999: Art. 57.2).

Unio (*Batavusiana*) *financei* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 37, 99. Replacement name introduced to remove homonymy with *U. sinuata* Lamarck, 1819.

Figured syntype (not seen): precise locality unknown, “Environs de Thoune; lac de Neuchâtel” [Switzerland]. Exemplar specimen from the Locard Collection MNHN 22217: the Marne at Châlons-en-Champagne [Dept. Marne, Seine Basin]. Exemplar specimen MNHN 22218: the Eure near Évreux [Dept. Eure, Seine Basin]. Exemplar specimen MNHN 22219: Domsure [Dept. Ain, Rhône Basin].

- = *Unio financei* – Westerlund 1890: 79.
- = *Unio* (Groupe de l'*U. batavus*) *financei* – Locard 1893a: 171.
- + *Unio batavus* – Germain 1931: 727.

florenciana Locard, 1884, *Anodonta*.

Anodonta (*Ponderosina*) [*sic*] *florenciana* Locard, 1884: *Contr. Faune Malac. Franç.* 8: 29.

Lectotype (here designated) MNHN 22220: the Drée at Épinac [Dept. Saône-et-Loire, Loire Basin].

- = *Anodonta* (*Euanodonta*) *florenciana* – Westerlund 1890: 235.
- = *Anodonta* (*Meretrixiana*) *florenciana* – Locard 1890: 49.
- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *florenciana* – Locard 1893a: 262, fig. 258†.
- + *Anodonta intermedia* – Germain 1931: 769.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

foedata Locard, 1890, *Anodonta*.

Anodonta (*Ovuliana*) *foedata* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 67, 190.

Syntype MNHN 22221: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. Syntype MNHN 22222: the Menthon [Dept. Ain, Rhône Basin]. The measured syntype may be in the Bourguignat or Servain collection. Published localities, “La Maine, à Cholet (Maine-et-Loire) [Bourguignat, Servain]; la Loire, à Ingrandes et aux environs de Nantes (Loire-Inférieure); le Menthon; la Reysouze, aux environs de Bourg (Ain) [Loc.]; etc.” (Locard 1890: 67).

- = *Anodonta* (Groupe de l'*A. anatina*) *foedata* – Locard 1893a: 285.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

forojuliensis Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. foroguliensis*) [*sic*] *foroguliensis* [ex Béranguier ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 293, 361. Original spelling.

Unio forojuliensis Bourguignat – Béranguier, 1882: *Faune malac. Var.* 95. Incorrect subsequent spelling, retained because of prevailing usage (ICZN 1999: Art. 33.3.1). Béranguier was explicit that Locard misspelled

the intended spelling, and this has been followed by subsequent workers.

Lectotype (here designated) MNHN 22223 and paralectotype MNHN 22224: Fréjus [Dept. Var, Argens Basin].

- = *Unio* (*Turtoniana*) *forojuliensis* – Locard 1889: 44.
- = *Unio forojuliensis* – Westerlund 1890: 161.
- = *Unio* (Groupe de l'*U. turtoni*) *forojuliensis* – Locard 1893a: 181.
- + *Unio turtoni* – Germain 1931: 730.
- + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

fourneli Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. tumidus*) *fourneli* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 300, 367.

No types were found in the Locard Collection. Exemplar specimens MNHN 22225 (2 spec.): the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, “La Moselle, à Metz; la Seine, à Poissy, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 300).

- = *Unio* (*Tumidusiana*) *fourneli* – Locard 1889: 71.
- = *Unio tumidus* var. *fourneli* – Westerlund 1890: 97.
- = *Unio* (Groupe de l'*U. tumidus*) *fourneli* – Locard 1893a: 214.
- ?+ *Unio tumidus* – Germain 1931: 742.
- + *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

frayssianus Bourguignat in Locard, 1889, *Unio*.

Unio (*Gallicusiana*) *frayssianus* [ex Coutagne ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 49, 121.

Syntypes MNHN 22226 (2 spec.): “Étang de Meyranné” [near Arles, Dept. Bouches-du-Rhône, Rhône Basin]. The measured syntype is presumed to be in either the Bourguignat or Coutagne collection.

- ?= *Unio frayssianus* – Westerlund 1890: 129.
- = *Unio* (Groupe de l'*U. gallicus*) *frayssianus* – Locard 1893a: 189.
- + *Unio requieni* – Germain 1931: 736.
- + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***gabatiiformis* Locard, 1890, *Anodonta*.**

Anodonta (*Tricassiniana*) *gabatiiformis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 79, 221.

Lectotype (here designated) MNHN 22227 and paralectotype MNHN 22228: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin].

= *Anodonta* (Groupe de l'*A. pentagona*) *gabatiiformis* – Locard 1893a: 303.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***gabilloti* Locard, 1890, *Anodonta*.**

Anodonta (*Ventricosiana*) *gabilloti* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 23, 107.

Lectotype (here designated) MNHN 22230: the Loire, at Balbigny [Dept. Loire, Loire Basin].

= *Anodonta* (Groupe de l'*A. stagnalis*) *gabilloti* – Locard 1893a: 231.

+ *Anodonta cygnaea* [sic] – Germain 1931: 753.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 343.

***gallicus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. gallicus*) *gallicus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 296, 365.

Possible syntypes MNHN 22231 (3 spec.): Lake Le Bourget [Dept. Savoie, Rhône Basin]. The original type series is presumed to be in the Bourguignat Collection.

= *Unio* (*Gallicusiana*) *gallicus* – Locard 1889: 48.

?= *Unio gallicus* – Westerlund 1890: 129.

= *Unio* (Groupe de l'*U. gallicus*) *gallicus* – Locard 1893a: 189, fig. 203.

+ *Unio requieni* – Germain 1931: 736.

+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***georgei* Bourguignat in Locard, 1882, *Anodonta*.**

Anodonta (Groupe de l'*A. spengleri*) *georgi* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 280. Incorrect original spelling, as indicated by Locard's (1890, 1893a) subsequent use (ICZN 1999: Art. 32.2.1).

Anodonta georgei Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 351.

Lectotype (here designated) MNHN 22232 and paralectotype MNHN 22233: Juigné-sur-Loire [Dept. Maine-et-Loire, Loire Basin].

= *Anodonta* (*Euanodonta*) *georgei* – Westerlund 1890: 282.

= *Anodonta* (*Jourdeuiliiana*) *georgei* – Locard 1890: 57.

= *Anodonta* (Groupe de l'*A. jourdeuili*) *georgei* – Locard 1893a: 273.

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 338.

***gestroianus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. gallicus*) *gestroianus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 296, 365.

Lectotype (here designated) MNHN 22234 and paralectotype MNHN 22235: the Saône, at Asnières-sur-Saône [Dept. Ain, Rhône Basin]. Paralectotypes MNHN 22236 (3 spec.): the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin].

= *Unio* (*Porniana*) *gestroianus* – Locard 1889: 53.

= *Unio gestroianus* – Westerlund 1890: 133.

= *Unio* (Groupe de l'*U. gestroianus*) *gestroianus* – Locard 1893a: 194, fig. 208.

+ *Unio triffoiricus* – Germain 1931: 744.

+ *Unio pictorum rostratus* – Haas 1940: 122; 1969: 26.

***gibbosula* Locard, 1890, *Anodonta*.**

Anodonta (*Westerlundiana*) *gibbosula* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 69, 197.

No French specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Canne, à Saint-Saulge (Nièvre) [Bourguignat].” (Locard 1890: 69).

= *Anodonta* (Groupe de l'*A. anatina*) *gibbosula* – Locard 1893a: 289.

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

***giberti* Locard, 1889, *Unio*.**

Unio (*Penchinatiana*) *giberti* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 25, 85.

Lectotype (here designated) MNHN 22237 and paralectotype MNHN 22238: the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin]. Paralectotypes MNHN 22239 (2 spec.): the Seine, at Corbeil [Dept. Essonne, Seine Basin]. Paralectotype MNHN 22240: the Grand Morin, at Coulommiers [Dept. Seine-et-Marne, Seine Basin].

- = *Unio giberti* – Westerlund 1890: 71.
- = *Unio* (Groupe de l'*U. tumidus*) *giberti* – Locard 1893a: 215, fig. 227.
- + *Unio tumidus* – Germain 1931: 741.
- + *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

glabrella Locard, 1890, *Anodonta*.

Anodonta (*Idriniana*) *glabrella* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 62, 176.

Syntype MNHN 22246: the Nièvre, at Lurcy-le-Bourg and Saint-Saulge [Dept. Nièvre, Loire Basin]. Both localities are written on the shell. Syntype MNHN 22247: the Brizotte [Dept. Côte-d'Or, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, "La Nièvre, à Lurcy-le-Bourg; la Canne, à Saint-Saulge (Nièvre); le Drée, près Épinac (Saône-et-Loire) [Bourguignat]; la Brizotte (Côte-d'Or) [Loc.]; etc." (Locard 1890: 62).

- = *Anodonta* (Groupe de l'*A. anatina*) *glabrella* – Locard 1893a: 279.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

gliscerus Locard, 1893, *Unio*.

Unio (Groupe de l'*U. batavus*) *gliscerus* Locard, 1893a: *Coq. eaux douces saumâtres France*: 168.

Lectotype (here designated) MNHN 22241 and paralectotypes MNHN 22242 (2 spec.): the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. Paralectotypes MNHN 22243 (2 spec.): the Saône at Lyon [Dept. Rhône, Rhône Basin]. Paralectotypes MNHN 22244 (2 spec.): the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22245: the Grosne, at Marnay [Dept. Saône-et-Loire, Rhône Basin].

- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

glischra Locard, 1890, *Anodonta*.

Anodonta (*Jourdheuiliana*) *glischra* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 57, 169.

Lectotype (here designated) MNHN 22248: the Yvette, at Orsay, near Paris [Dept. Essonne, Seine Basin].

- = *Anodonta* (Groupe de l'*A. jourdheuli*) *glischra* – Locard 1893a: 273, fig. 266†.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

glossodes Locard, 1890, *Anodonta*.

Anodonta (*Cygnaea*) *glossodes* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 29, 112.

Lectotype (here designated) MNHN 22249: Brainans [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22250: Poligny [Dept. Jura, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. cygnaea* [*sic*]) *glossodes* – Locard 1893a: 237.
- + *Anodonta cygnaea* [*sic*] – Germain 1931: 753.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

glyca Bourguignat, 1881, *Anodonta*.

Anodonta (*Glyciana*) *glyca* Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 167.

Syntype MNHN 22251: Montafroy [Dept. Jura, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. glyca*) *glyca* – Locard 1882: 272; 1893a: 245.
- = *Anodonta* (*Glyciana*) *glyca* – Locard 1884: 21; 1890: 35.
- = *Anodonta* (*Euanodonta*) *glyca* – Westerlund 1890: 222.
- = *Anodonta avonensis* forme *glyca* – Germain 1931: 763.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 334.

glycella Locard, 1884, *Anodonta*.

Anodonta (*Glyciana*) *glycella* [ex Bourguignat ms] Locard, 1884: *Contr. Faune Malac. Franç.* 8: 21.

Lectotype (here designated) MNHN 22252: the Menthon [Dept. Ain, Rhône Basin].

- = *Anodonta (Glyciana) glycella* – Locard 1890: 35.
- = *Anodonta (Euanodonta) glycella* – Westerlund 1890: 222.
- = *Anodonta* (Groupe de l'*A. glyca*) *glycella* – Locard 1893a: 246.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***gobionum* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. falsus*) *gobionum* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 296, 364.

No types were found in the Locard Collection. Exemplar specimen MNHN 22253: the Canal du Midi, at Carcassonne [Dept. Aude, Aude Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “Le canal du Midi, à Villefranche-Lauragais, dans la Haute-Garonne (Bourguignat).” (Locard 1882: 296)

- = *Unio (Saint-Simoniana) gobionum* – Locard 1889: 52.
- ?= *Unio gobionum* – Westerlund 1890: 160.
- = *Unio* (Groupe de l'*U. requieni*) *gobionum* – Locard 1893a: 193.
- + *Unio requieni* – Germain 1931: 736.
- + *Unio elongatulus mancus* – Haas 1940: 126; 1969: 36.
- + *Unio mancus* – Araujo *et al.* 2009a: 33.

***hattemani* Bourguignat in Locard, 1889, *Unio*.**

Unio (Pisaniana) hattemani Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 40, 106.

Syntypes MNHN 22254 and MNHN 22255: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. Syntype MNHN 22256: the Loire, at Saint-Gondon [Dept. Loiret, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Additional published locality, “La Loire, à Saint-Gemmes, près d’Angers (Maine-et-Loire) [Bourguignat]...” (Locard 1889: 40).

- = *Unio hattemani* – Westerlund 1890: 148.
- = *Unio* (Groupe de l'*U. adonus*) *hattemani* – Locard 1893a: 176.
- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***hauterivianus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. elongatulus*) *hauterivianus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 288, 358.

No types were found in the Locard Collection. Exemplar specimen MNHN 22257: the Agoût, at Lavaur [Dept. Tarn, Garonne Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “Le canal du Midi, à Villefranche-Lauragais, dans la Haute-Garonne (Bourguignat).” (Locard 1882: 288).

- = *Unio (Turtoniana) hauterivianus* – Locard 1889: 44.
- ?= *Unio hauterivianus* – Westerlund 1890: 165.
- = *Unio* (Groupe de l'*U. turtoni*) *hauterivianus* – Locard 1893a: 183; 1899: 222.
- + *Unio turtoni* var. *philippe* [sic] – Germain 1931: 732.
- + *Unio pictorum platyrhynchoideus* [sic] – Haas 1940: 123; 1969: 27.

***hecartiana* Locard, 1884, *Anodonta*.**

Anodonta (Pammegaliana) hecartiana Locard, 1884: *Contr. Faune Malac. Franç.* 8: 9.

Lectotype (here designated) MNHN 22258: the Saône at Lyon [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22259: Avignon [Dept. Vaucluse, Rhône Basin]. Paralectotype MNHN 22260: Irigny [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22261: Mons-Condé Canal at Condé-sur-l’Escaut [Dept. Nord, Scheldt Basin].

- = *Anodonta (Pammegaliana) hecartiana* – Locard 1890: 19.
- = *Anodonta (Euanodonta) hecartiana* – Westerlund 1890: 201.
- = *Anodonta* (Groupe de l'*A. pammegala*) *hecartiana* – Locard 1893a: 228.
- + *Anodonta cygnaea* [sic] – Germain 1931: 753.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***holandrei* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. bardus*) *holandrei* [ex de Saulcy ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 299, 366.

Unio (Holandriana) hollandrei “de Saulcy” – Locard 1889: *Contr. Faune Malac. Franç.* 13: 61. Incorrect subsequent spelling of *U. holandrei* (ICZN 1999: Art. 33.3).

No types were found in the Locard Collection. Exemplar specimen MNHN 22262: Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, “La Moselle, à

Metz; Juigné-sur-Loire, dans le Maine-et-Loire; la Seine, à Bougival, au Pecq, etc., dans Seine-et-Oise (Bourguingat).” (Locard 1882: 299).

- = *Unio holandrei* – Westerlund 1890: 107.
- = *Unio* (Groupe de l’*U. danielis*) *hollandrei* [sic] – Locard 1893a: 201.
- + *Unio requieni* – Germain 1931: 736.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***hopitali* Locard, 1889, *Unio*.**

Unio requieni var. *minima* [non Drouët, 1857] – l’Hôpital 1859: *Cat. moll. env. Caen*: 61.

Unio (*Breissoniana*) *hopitali* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 45, 118.

Unio (Groupe de l’*U. amblyus*) *hopitali* – Locard 1893a: *Coq. eaux douces saumâtres France*: 186. Incorrect subsequent spelling of *U. hopitali* (ICZN 1999: Art. 33.3).

Syntype MNHN 22263: May-sur-Orne [Dept. Calvados, Orne Basin]. The measured syntype may be in the l’Hôpital Collection. Published locality, “La Vie, à Saint-Julien-le-Faucon; l’Odon, à Mittois, près de Saint-Pierre-sur-Dive [de l’Hôpital]; l’Orne, à Feugerolles près de Caen, et à May (Calvados) [Loc.]; etc.” (Locard 1889: 45).

- = *Unio hopitali* – Westerlund 1890: 156.
- + *Unio villae* – Germain 1931: 735.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***hydrelus* Locard, 1889, *Unio*.**

Unio pictorum [non *Mya pictorum* Linnaeus, 1758] – Draparnaud 1805: *Hist. Moll. France*: pl. 11, figs 1, 2.

Unio (*Requieniana*) *hydrelus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 51, 129.

Lectotype (here designated) MNHN 22264: Brains [Dept. Jura, Rhône Basin]. Paralectotypes MNHN 22265 (3 spec.): “Bois-Vieux” [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22266: the Osse [Dept. Gers, Garonne Basin]. Paralectotype MNHN 22267: Espalion [Dept. Aveyron, Garonne Basin].

- = *Unio hydrelus* – Westerlund 1890: 122.
- = *Unio* (Groupe de l’*U. requieni*) *hydrelus* – Locard 1893a: 192, fig. 206.

- + *Unio requieni* – Germain 1931: 737.
- + *Unio pictorum rostratus* – Haas 1940: 122; 1969: 26.

***icana* Locard, 1890, *Anodonta*.**

Anodonta (*Vietuliana*) *icana* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 38, 132.

Possible syntype MNHN 22268: Marboz [Dept. Ain, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, “La Loire, à Tours (Indre-et-Loire); Marboz (Ain) [Bourguignat].” (Locard 1890: 38).

- = *Anodonta* (Groupe de l’*A. glyca*) *icana* – Locard 1893a: 249.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***idrinopsis* Locard, 1890, *Anodonta*.**

Anodonta (*Anatiniana*) *idrinopsis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 61, 177.

Lectotype (here designated) MNHN 22269: the Brizotte [Dept. Côte-d’Or, Rhône Basin].

- = *Anodonta* (Groupe de l’*A. anatina*) *idrinopsis* – Locard 1893a: 278.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***ignari* Bourguignat in Locard, 1889, *Unio*.**

Unio ater [non Nilsson, 1822] – Drouët 1857: *Naiades France*: pl. 4, fig. 1.

Unio (*Ateriana*) *ignari* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 40, 107.

Syntypes MNHN 22270 (3 spec.): the “Mandreze,” at Saulcy-sur-Meurthe [Dept. Vosges, Rhin basin]. The measured syntype may be in the Drouët Collection.

- = *Unio ignari* – Westerlund 1890: 67.
- = *Unio* (Groupe de l’*U. ater*) *ignari* – Locard 1893a: 176.
- + *Unio consentaneus* – Germain 1931: 732.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

ignariformis Bourguignat in Locard, 1889, *Unio*.

Unio platyrhynchoideus [non Dupuy, 1852] – Drouët 1857: *Naiades France*: pl. 9, fig. 1.

Unio (Ateriana) ignariformis Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 41, 108.

No specimens were found in the Locard Collection. The figured syntype is presumed to be in the Drouët Collection.

= *Unio ignariformis* – Westerlund 1890: 68.

= *Unio* (Groupe de l'*U. ater*) *ignariformis* – Locard 1893a: 177.

+ *Unio consentaneus* – Germain 1931: 732.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

illuviosa Bourguignat, 1881, *Anodonta*.

"*Anodonta monstrosa*" Mörch, 1853: *Cat. Conch. Yoldi* 2: 48. Nude name, unavailable.

Anodonta anatina monstrosa Brot, 1867: *Assoc. Zool. Léman Ann.*: pl. 7, fig. 2.

Anodonta (Abbreviatiana) illuviosa Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 296. Unnecessary replacement name for *A. anatina monstrosa* Brot, 1867.

Syntype MNHN 24467 unnamed stream at La Salle [Dept. Saône-et-Loire, Rhône Basin].

= *Anodonta* (Groupe de l'*A. racketti*) *illuviosa* – Locard 1882: 279.

= *Anodonta (Euanodonta) illuviosa* – Westerlund 1890: 269.

= *Anodonta (Illuviosiana) illuviosa* – Locard 1890: 71.

= *Anodonta* (Groupe de l'*A. acallia*) *illuviosa* – Locard 1893a: 290.

+ *Anodonta cygnaea* [sic] – Germain 1931: 754.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 336.

imperialis Bourguignat in Locard, 1890, *Pseudanodonta*.

"*Pseudanodonta imperialis*" Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (Scrupeana) imperialis [ex Servain ms] Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 13, 92.

Syntype MNHN 22278: the Vie, near Crèvecœur-en-Auge [Dept. Calvados, Dives Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, "La Loire, au port Thibaut, près Angers (Maine-et-Loire); la Saône, à Neuville-sur-Saône (Rhône) [Bourguignat]; La Vie, près Crève-Cœur (Calvados) [Loc.]; etc." (Locard 1890: 13).

= *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *imperialis* – Locard 1893a: 219, fig. 231.

+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

inaequabilis Locard, 1890, *Anodonta*.

Anodonta (Westerlundiana) inaequabilis [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 69, 195.

No types were found in the Locard Collection. Exemplar specimens MNHN 22279 (2 spec.): the Loire, at Balbigny [Dept. Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, "L'Evre (Mayenne); la Canne, à Saint-Saulge (Nièvre) [Bourguignat]; etc." (Locard 1890: 69).

= *Anodonta* (Groupe de l'*A. anatina*) *inaequabilis* – Locard 1893a: 288.

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

indetrita Locard, 1890, *Anodonta*.

Anodonta (Avoniana) indetrita Locard, 1890: *Contr. Faune Malac. Franç.* 14: 73, 204.

Holotype (monotypy) MNHN 22280: "Étang de Meyranne" [near Arles, Dept. Bouches-du-Rhône, Rhône Basin].

= *Anodonta* (Groupe de l'*A. avonica*) *indetrita* – Locard 1893a: 294.

+ *Anodonta subrhombea* – Germain 1931: 773.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

indusiana Locard, 1890, *Anodonta*.

Anodonta (Anatiniana) indusiana [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 59, 173.

Syntype MNHN 22281: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Other published locality, “L’Ain (sans indication précise de localité) [Bourguignat]...” (Locard 1890: 59).

= *Anodonta* (Groupe de l’*A. anatina*) *indusiana* – Locard 1893a: 276.
+ *Anodonta anatina* – Germain 1931: 757.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

ingrandiensis Bourguignat in Locard, 1889, *Unio*.

Unio (*Batavusiana*) *ingrandiensis* [ex Surrault ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 37, 96.

Possible syntype MNHN 22282: Ingrandes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Loire, à Ingrandes (Maine-et-Loire) [Bourguignat].” (Locard 1889: 37).

= *Unio ingrandiensis* – Westerlund 1890: 78.
= *Unio* (Groupe de l’*U. batavus*) *ingrandiensis* – Locard 1893a: 173.
+ *Unio batavus* – Germain 1931: 727.
+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

invenusta Locard, 1890, *Anodonta*.

Anodonta (*Illuviosiana*) *invenusta* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 72, 198.

Lectotype (here designated) MNHN 22283: Châtillon-sur-Seine [Dept. Côte-d’Or, Seine Basin].

= *Anodonta* (Groupe de l’*A. acallia*) *invenusta* – Locard 1893a: 291.
+ *Anodonta avonensis* – Germain 1931: 761.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

invicta Locard, 1890, *Anodonta*.

Anodonta (*Arealiana*) *invicta* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 63, 179.

Holotype (monotypy) MNHN 22284: Rhône-Rhine Canal, near Mulhouse [Dept. Haut-Rhin, Rhin basin].

= *Anodonta* (Groupe de l’*A. anatina*) *invicta* – Locard 1893a: 281.

+ *Anodonta anatina* – Germain 1931: 757.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

isarana Bourguignat in Locard, 1890, *Pseudanodonta*.

“*Pseudanodonta isarana*” Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Scrupeana*) *isarana* Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 13, 93.

No types were found in the Locard Collection. Exemplar specimen MNHN 22285: the Maine at Cholet [Dept. Maine-et-Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published localities, “La Seine, à Poissy; l’Oise, à Conflans, à son embouchure dans la Seine (Seine-et-Oise) [Bourguignat].” (Locard 1890: 13).

= *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *isarana* – Locard 1893a: 220.
+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

issiodurensis Locard, 1890, *Anodonta*.

Anodonta (*Glyciana*) *issiodurensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 36, 127.

Holotype (monotypy) MNHN 22286: the Couze near Issoire [Dept. Puy-de-Dôme, Loire Basin].

= *Anodonta* (Groupe de l’*A. glyca*) *issiodurensis* – Locard 1893a: 246.
+ *Anodonta avonensis* – Germain 1931: 761.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

joannis Locard, 1882, *Unio*.

Unio pictorum var. *compressus* de Joannis non Moquin-Tandon, 1859: *Ann. Soc. Linn. Maine-et-Loire* 3: pl. 12, fig. 7†. Junior primary homonym of *U. sinuatus* var. *compressus* Moquin-Tandon, 1856 = *Margaritifera auricularia* (Spengler, 1793) *fide* Westerlund (1890) (ICZN 1999: Art. 57.2).

Unio (Groupe de l’*U. gallicus*) *joannis* [ex Bourguignat ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 296. Replacement

name introduced to remove homonymy with *U. sinuatus* var. *compressus* Moquin-Tandon, 1856.

Figured syntype (not seen): precise locality unknown, "... la Loire, l'Authion et l'Oudon..." Exemplar specimen from the Locard Collection MNHN 22287: the Seine, at Le Pecq [Dept. Yvelines, Seine Basin].

= *Unio (Joannisiana) joannisi* – Locard 1889: 57.
 ?= *Unio joannisi* – Westerlund 1890: 181.
 = *Unio* (Groupe de l'*U. gestroianus*) *joannisi* – Locard 1893a: 196.
 + *Unio requieni* – Germain 1931: 737.
 + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

jourdheuli Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. gallicus*) *jourdheuli* [ex Ray ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 296, 364.

No types were found in the Locard Collection. Exemplar specimen MNHN 22288: canal at Givros [Dept. Rhône, Rhône Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, "Déversoir de Croncels, à Troyes, dans l'Aube; canal de Midi, à Villefranche-Lauraguais, dans la Haute-Garonne (Bourguignat)." (Locard 1882: 296).

= *Unio (Falsusiana) jourdeuili* – Locard 1889: 57.
 = *Unio jourdeuili* [sic] – Westerlund 1890: 138.
 = *Unio* (Groupe de l'*U. gestroianus*) *jourdheuli* – Locard 1893a: 198, fig. 212.
 + *Unio requieni* – Germain 1931: 737.
 + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

jousseamei Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. rousi*) *jousseamei* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 294, 363.

No types were found in the Locard Collection. Exemplar specimen MNHN 22289: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, "La Seine, près de Saint-Germain, dans Seine-et-Oise (Bourguignat)." (Locard 1882: 294).

= *Unio (Jousseameana) jousseamei* – Locard 1889: 63.
 = *Unio rousi* var. *jousseamei* – Westerlund 1890: 126.
 = *Unio* (Groupe de l'*U. tumens*) *jousseamei* – Locard 1893a: 204, fig. 217.
 + *Unio limosus* – Germain 1931: 744.
 + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

jurana Locard, 1890, *Anodonta*.

Anodonta (Idriniana) jurana Locard, 1890: *Contr. Faune Malac. Franç.* 14: 62, 178.

Lectotype (here designated) MNHN 22290 and paralectotype MNHN 22291: "Bois-Vieux" [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. anatina*) *jurana* – Locard 1893a: 279, fig. 271†.
 + *Anodonta anatina* – Germain 1931: 757.
 + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

jurianus Locard, 1889, *Unio*.

Unio (Mancusiana) jurianus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 23, 81.

Unio (Groupe de l'*U. mancus*) *jurianus* – Locard 1893a: *Coq. eaux douces saumâtres France*: 157, fig. 171. Incorrect subsequent spelling of *U. jurianus* (ICZN 1999: Art. 33.3).

Lectotype (here designated) MNHN 22292 and paralectotypes MNHN 22293 (7 spec.): the Valouse [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22294: the Albane [Dept. Côte-d'Or, Rhône Basin]. Paralectotype MNHN 22295: Rennes-sur-Loue [Dept. Doubs, Rhône Basin]. Paralectotype MNHN 22296: Pirajoux [Dept. Ain, Rhône Basin].

= *Unio jurianus* – Westerlund 1890: 86.
 + *Unio mancus* var. *amnicus* – Germain 1931: 726.
 + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

labelliformis Locard, 1890, *Anodonta*.

Anodonta (letourneuxiana) labelliformis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 79, 217.

Lectotype (here designated) MNHN 22297 and paralectotype MNHN 22298: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin].

Paralectotypes MNHN 22299 (2 spec.): the Seine, near Rouen [Dept. Seine-Maritime, Seine Basin].

= *Anodonta* (Groupe de l'*A. pentagona*) *labelliformis* – Locard 1893a: 303, fig. 291†.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

lacannica Locard, 1890, *Anodonta*.

Anodonta (*Lacanniciana*) *lacannica* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 46, 141.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Canne, à Saint-Saulge (Nièvre) [Bourguignat].” (Locard 1890: 46).

= *Anodonta* (Groupe de l'*A. curta*) *lacannica* – Locard 1893a: 258.

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

lacrymiformis Locard, 1893, *Unio*.

Unio lacrymiformis Locard, 1893b: *Bull. Soc. Sci. Nat. Elbeuf* 12: 12.

Lectotype (here designated) MNHN 22300: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22301: the Charente, at Saintes [Dept. Charente-Maritime, Charente Basin].

= *Unio* (Groupe de l'*U. tumidus*) *lacrymiformis* – Locard 1893a: 216, fig. 228†.

+ *Unio tumidus* – Germain 1931: 741.

+ *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

lacustris Bourguignat in Locard, 1890, *Pseudanodonta*.

“*Pseudanodonta lacustris*” Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Scrupeana*) *lacustris* [ex Servain ms] Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 13, 95.

No types were found in the Locard Collection. Exemplar specimen MNHN 22302: Montfort-le-Gesnois [Dept. Sarthe, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “Le lac de Grandlieu (Loire-Inférieure) [Bourguignat]; les environs d’Elbeuf (Seine-Inférieure) [Loc.]; etc.” (Locard 1890: 13).

= *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *lacustris* – Locard 1893a: 220.

+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

lagnysicus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. mancus*) *lagnysicus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 291, 359.

Unio (*Nanusiana*) *lagnysicus* Bourguignat – Locard, 1889: *Contr. Faune Malac. Franç.* 13: 21. Incorrect subsequent spelling of *U. lagnysicus* (ICZN 1999: Art. 33.3).

Syntype MNHN 22303: Condal [Dept. Saône-et-Loire, Rhône Basin]. Syntype MNHN 22304: the Drée [Dept. Saône-et-Loire, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Additional published locality, “La Laignes, aux Riceys, dans l’Aube (Bourguignat)...” (Locard 1882: 291).

= *Unio lagnysicus* [sic] – Westerlund 1890: 84.

= *Unio* (Groupe de l'*U. nanus*) *lagnysicus* [sic] – Locard 1893a: 154.

+ *Unio mancus* – Germain 1931: 724.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

lanceleveii Locard, 1893, *Unio*.

Unio lanceleveii Locard, 1893b: *Bull. Soc. Sci. Nat. Elbeuf* 12: 1.

Syntype MNHN 22305: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. The measured syntype was not found in the Locard Collection.

= *Unio* (Groupe de l'*U. batavus*) *lanceleveii* – Locard 1893a: 170.

+ *Unio batavus* var. *baraceus* – Germain 1931: 729.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

lemotheuxi Bourguignat in Locard, 1889, *Unio*.

Unio (Lemotheuxiana) lemotheuxi [ex Servain ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 39, 102.

Lectotype (here designated) MNHN 22306: the Reyran [Dept. Var, Reyran Basin]. Paralectotype MNHN 22307: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin].

- = *Unio lemotheuxi* – Westerlund 1890: 83.
- = *Unio* (Groupe de l'*U. adonus*) *lemotheuxi* – Locard 1893a: 175; fig. 189.
- + *Unio mancus* var. *elongatulus* – Germain 1931: 727.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

lesumicus Bourguignat in Locard, 1889, *Unio*.

Unio rostratus [non Lamarck, 1819] – Michaud 1831: *Compl. Hist. Nat. Moll. Drap.*: pl. 16, fig. 25.

Unio (Saint-Simoniana) lesumicus Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 52, 130.

Syntype MNHN 22308: Lesum River, Bremen-Vegesack, Germany. Syntype MNHN 22309: ditches of Fort de la Vitriolerie, at Lyon [Dept. Rhône, Rhône Basin]. Published French localities, “La Rhône, à Lyon [Michaud]; fossés du fort de la Vitriolerie, à Lyon (Rhône); la Grosne, à Marney (Saône-et-Loire) [Loc.]; etc.” (Locard, 1889: 52).

- ?= *Unio lesumicus* – Westerlund 1890: 181.
- = *Unio* (Groupe de l'*U. gestroianus*) *lesumicus* – Locard 1893a: 194.
- + *Unio requieni* var. *pornae* – Germain 1931: 738.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

levoiturieri Locard, 1893, *Unio*.

Unio levoiturieri Locard, 1893b: *Bull. Soc. Sci. Nat. Elbeuf* 12: 7.

No specimens were found in the Locard Collection. Published locality, “Habitat. – La Seine, en amont d’Elbeuf, au-dessous du barrage de Martot (Seine-Inférieure).” (Locard 1893a: 7).

- = *Unio* (Groupe de l'*U. tumidus*) *levoiturieri* – Locard 1893a: 216.
- + *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

ligericus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. batavus*) *ligericus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 358.

No types were found in the Locard Collection. Exemplar specimen MNHN 22310: the Loire, Ingrandes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “La Loire, à Saumur, dans le Maine-et-Loire (Bourguignat).” (Locard 1882: 289).

- = *Unio (Batavusiana) ligericus* – Locard 1889: 36.
- = *Unio batavus* var. *ligericus* – Westerlund 1890: 75.
- = *Unio* (Groupe de l'*U. batavus*) *ligericus* – Locard 1893a: 169.
- + *Unio batavus* – Germain 1931: 727.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

limosina Dumas, 1895, *Pseudanodonta*.

Pseudanodonta limosina Dumas, 1895: *Rev. Sci. Bourbonnais, Suppl.*: 63.

Syntype MNHN 22311: Canal du Berry [Dept. Allier, Loire Basin]. Measured specimen not seen.

- + *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

linguiformis Locard, 1893, *Unio*.

Unio (Groupe de l'*U. turtoni*) *linguiformis* [ex Wilcock ms] Locard, 1893a: *Coq. eaux douces saumâtres France*: 182.

No specimens were found in the Locard Collection. Published locality, “... la Saône, l’Arconce, dans Saône-et-Loire.” (Locard 1893a: 182).

- + *Unio turtoni* – Germain (1931: 730).

locardi Bourguignat, 1881, *Anodonta*.

Anodonta (Ventricosiana) locardi Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 126.

Syntype MNHN 22312: ditches of Fort de la Vitriolerie, at Lyon [Dept. Rhône, Rhône Basin]. The measured syntype may be in the Bourguignat Collection.

- = *Anodonta* (Groupe de l'*A. ventricosa*) *locardi* – Locard 1882: 268.
- = *Anodonta* (*Ventricosina*) [*sic*] *locardi* – Locard 1884: 12.
- = *Anodonta* (*Euanodonta*) *locardi* – Westerlund 1890: 207.
- = *Anodonta* (*Gravidiana*) *locardi* – Locard 1890: 20.
- = *Anodonta* (Groupe de l'*A. stagnalis*) *locardi* – Locard 1893a: 229.
- + *Anodonta cygnaea* [*sic*] – Germain 1931: 753.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 334.

***locardi* Bourguignat in Locard, 1882,
Pseudanodonta.**

Pseudanodonta (Group du *P. Rayi*) *locardi* [ex Coutagne ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 266, 347.

Lectotype (here designated) MNHN 22314 and paralectotype MNHN 22315: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin].

- = *Anodonta* (*Pseudanodonta*) *locardi* – Westerlund 1890: 309.
- = *Pseudanodonta* (*Elongatiana*) *locardi* – Locard 1890: 17.
- = *Pseudanodonta* (Groupe du *P. elongata*) *locardi* – Locard 1893a: 224, fig. 235†.
- + *Pseudanodonta dorsuosa* – Germain 1931: 749.
- + *Pseudanodonta elongata* – Haas 1940: 139; 1969: 378.

***locardianus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. locardianus*) *locardianus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 287, 356.

No types were found in the Locard Collection. Exemplar specimen MNHN 22316: the Albane [Dept. Côte-d'Or, Rhône Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “Villeneuve, dans l'Ain (Bourguignat).” (Locard 1882: 287).

- = *Unio* (*Locardiana*) *locardianus* – Locard 1889: 32.
- = *Unio locardianus* – Westerlund 1890: 89.
- = *Unio* (Groupe de l'*U. locardianus*) *locardianus* – Locard 1893a: 164, fig. 178.
- + *Unio crassus* – Germain 1931: 722.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

***lortetiana* Locard, 1884, *Anodonta*.**

Anodonta (*Acalliana*) *lortetiana* Locard, 1884: *Contr. Faune Malac. Franç.* 8: 34.

Holotype (monotypy) MNHN 22317: unnamed stream at La Salle [Dept. Saône-et-Loire, Rhône Basin].

- = *Anodonta* (*Acalliana*) *lortetiana* – Locard 1890: 70.
- = *Anodonta* (*Euanodonta*) *lortetiana* – Westerlund 1890: 262.
- = *Anodonta* (Groupe de l'*A. acallia*) *lortetiana* – Locard 1893a: 290.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***loydiana* Locard, 1893, *Anodonta*.**

Anodonta (Groupe de l'*A. intermedia*) *loydiana* [ex Bourguignat ms] Locard, 1893a: *Cog. eaux douces saumâtres France*: 265.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “... lac de Grandlieu (Loire-Inférieure).” (Locard 1893a: 265).

- ?+ *Anodonta intermedia* – Germain 1931: 769.

***lugdunicus* Bourguignat in Locard, 1889, *Unio*.**

Unio (*Holandriana*) *lugdunicus* [ex Coutagne ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 62, 141.

Lectotype (here designated) MNHN 22318 and paralectotypes MNHN 22319 (6 spec.): ditches of Fort de la Vitriolerie, at Lyon [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22320: the Saône, at Tournus [Dept. Saône-et-Loire, Rhône Basin].

- = *Unio lugdunicus* – Westerlund 1890: 108.
- = *Unio* (Groupe de l'*U. rostratus*) *lugdunicus* – Locard 1893a: 209.
- + *Unio tumidus* var. *rostratus* – Germain 1931: 742.
- + *Unio pictorum rostratus* – Haas 1940: 122; 1969: 26.

***macropisthus* Locard, 1889, *Unio*.**

Unio pictorum [non *Mya pictorum* Linnaeus, 1758] – Rossmässler 1837: *Icon. Land- und Süßw.-Moll.* 1 (5-6): pl. 29, fig. 409.

Unio (*Rostratiana*) *macropisthus* [ex Bourguignat ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 66.

Unio macropsisthus Bourguignat – Locard 1889: *Contr. Faune Malac. Franç.* 13: 152. Incorrect original spelling, as indicated by Locard's (1893a) usage (ICZN 1999: Art. 32.2.1).

Lectotype (here designated) MNHN 22321 and paralectotype MNHN 22322: the Seine at Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotypes MNHN 22323 (2 spec.): the Saône at Saint-Jean-de-Losne [Dept. Côte-d'Or, Rhône Basin]. Paralectotype MNHN 22324: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin]. Paralectotypes MNHN 22325 (2 spec.): the Saône, at Gray [Dept. Haute-Saône, Rhône Basin].

= *Unio macropisthus* – Westerlund 1890: 106.
= *Unio* (Groupe de l'*U. maximus*) *macropisthus* – Locard 1893a: 210.
+ *Unio tumidus* var. *rostratus* – Germain 1931: 742.
+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***macrorhynchus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. sandrii*) *macrorhynchus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 292, 361.

Lectotype (here designated) MNHN 22326 and paralectotypes MNHN 22327 (4 spec.): Lake Le Bourget [Dept. Savoie, Rhône Basin].

= *Unio* (*Sandriana*) *macrorhynchus* – Locard 1889: 26.
= *Unio macrorhynchus* – Westerlund 1890: 91.
= *Unio* (Groupe de l'*U. macrorhynchus*) *macrorhynchus* – Locard 1893a: 158, fig. 172†.
= *Unio mancus* var. *macrorhynchus* – Germain 1931: 725.
+ *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

***malafossianus* Locard, 1882, *Unio*.**

Unio requienii var. *permaxima* Dupuy, 1877: *J. de Conch.* 25: 22.

Unio (Groupe de l'*U. rostratus*) *malafossianus* [ex P. Fagot ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 297. This name was unnecessarily introduced for Dupuy's subspecies.

No specimens were found in the Locard Collection. Published locality, "Les eaux chaudes de Barbottan, dans le Gers (Dupuy)." (Locard 1882: 298).

= *Unio* (*Rostratiana*) *malafossianus* – Locard 1889: 69.
= *Unio malafossianus* – Westerlund 1890: 109.
= *Unio* (Groupe de l'*U. maximus*) *malafossianus* – Locard 1893a: 211.
+ *Unio tumidus* var. *maximus* – Germain 1931: 744.
+ *Unio elongatulus rousii* – Haas 1940: 126; 1969: 36.

***manculopsis* Locard, 1890, *Anodonta*.**

Anodonta (*Unioniformiana*) *manculopsis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 72, 201.

Lectotype (here designated) MNHN 22328: Saint-Amour [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. unioniformis*) *manculopsis* – Locard 1893a: 292, fig. 282†.
+ *Anodonta avonensis* – Germain 1931: 761.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

***manculus* Locard, 1889, *Unio*.**

Unio (*Mancusiana*) *manculus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 24, 84.

Lectotype (here designated) MNHN 22329: Gigny [Dept. Jura, Rhône Basin]. Paralectotypes MNHN 22330 (2 spec.): the Suran [Dept. Ain, Rhône Basin]. Paralectotype MNHN 22331: the Brizotte [Dept. Côte-d'Or, Rhône Basin]. Paralectotypes MNHN 22332 (2 spec.): the Tille [Dept. Côte-d'Or, Rhône Basin]. Paralectotypes MNHN 22333 (6 spec.): "Bois-Vieux" [Dept. Jura, Rhône Basin].

= *Unio manculus* – Westerlund 1890: 85.
= *Unio* (Groupe de l'*U. mancus*) *manculus* – Locard 1893a: 156.
+ *Unio mancus* – Germain 1931: 724.
+ *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

***mansueta* Locard, 1890, *Anodonta*.**

Anodonta (*Glyciana*) *mansueta* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 35, 126.

Syntype MNHN 22334: the Aure, at Bayeux [Dept. Calvados, Vire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, "Étang de Beaureplet, près Saint-Saulge (Nièvre) [Bourguignat]; les environs de Nantes (Loire-In-

férieure); l'Aure supérieure, à Bayeux (Calvados) [Loc.]; etc.” (Locard 1890: 35).

= *Anodonta* (Groupe de l'*A. glyca*) *mansueta* – Locard (1893a: 245).

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***marbozensis* Locard, 1890, *Anodonta*.**

Anodonta (*Vietuliana*) *marbozensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 38, 133.

Lectotype (here designated) MNHN 22340: Marboz [Dept. Ain, Rhône Basin].

= *Anodonta* (Groupe de l'*A. glyca*) *marbozensis* – Locard 1893a: 250, fig. 252†.

+ *Anodonta anatina* – Germain 1931: 757.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***marcellinus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. philippe*) *marcellinus* [ex Berthier ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 285, 355.

No specimens were found in the Locard Collection. The type series is presumed to be in the Bourguignat Collection. Published locality, “La Seine, à Poissy, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 285).

= *Unio* (*Ateriana*) *marcellinus* – Locard 1889: 43.

= *Unio* (Groupe de l'*U. ater*) *marcellinus* – Locard 1893a: 180.

+ *Unio consentaneus* var. *moquini* – Germain 1931: 734.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

***marcida* Locard, 1890, *Anodonta*.**

Anodonta (*Jourdhueiliana*) *marcida* [ex Pechaud ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 58, 171.

No types were found in the Locard Collection. Exemplar specimen MNHN 22341: Montaigne [Dept. Vendée, Loire Basin]. The measured syntype is presumed to be in either the Bourguignat or Pechaud collection. Published locality, “La Nièvre, à Lurcy (Nièvre) [Pechaud, Bourguignat].” (Locard 1890: 58).

= *Anodonta* (Groupe de l'*A. jourdhueil*) *marcida* – Locard 1893a: 274.

+ *Anodonta anatina* var. *chresimella* – Germain 1931: 760.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***marconi* Locard, 1890, *Anodonta*.**

Anodonta (*Rostratiana*) *marconi* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 55, 167.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Canne, à Saint-Saulge (Nièvre) [Bourguignat].” (Locard 1890: 55).

= *Anodonta* (Groupe de l'*A. rossmassleriana*) *marconi* – Locard 1893a: 269.

?+ *Anodonta rostrata* – Germain 1931: 766.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***margaritanopsis* Locard, 1889, *Unio*.**

Unio (groupe de l'*U. margaritanopsis*) *margaritanopsis* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 17, 76.

No specimens were found in the Locard Collection. Published locality, “Le Lot, à Aiguillon (Lot-et-Garonne) [Loc.].” (Locard 1889: 17).

= *Unio margaritanopsis* – Westerlund 1890: 51.

= *Unio* (groupe de l'*U. margaritanopsis*) *margaritanopsis* – Locard 1893a: 151, fig. 163.

= *Margaritana margaritanopsis* – Germain 1931: 719.

+ *Margaritifera auricularia auricularia* – Haas 1940: 119.

+ *Margaritifera* (*Pseudunio*) *auricularia auricularia* – Haas 1969: 13.

***mariae* Bourguignat in Locard, 1889, *Unio*.**

Unio (*Mariana*) *mariae* [ex F. Pacôme ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 53, 130.

No types were found in the Locard Collection. Exemplar specimen MNHN 22342: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. The measured syntype is presumed to be in either the Bourguignat or Pacôme collection. Published localities, “La Senence et la Reconce, à Charolles (Saône-et-Loire) [F. Pacôme, Bourguignat].” (Locard 1889: 53).

- = *Unio mariae* – Westerlund 1890: 134.
- = *Unio* (Groupe de l'*U. batavus*) *mariae* – Locard 1893a: 172.
- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

marioni Bourguignat in Locard, 1890,
Anodonta.

Anodonta (*Marioniana*) *marioni* [ex Coutagne ms]
Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 73, 206.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Coutagne Collection. Published locality, “Le Bras-Mort, rive gauche du Rhône, en face d’Aramon (Gard) [Coutagne].” (Locard 1890: 73).

- = *Anodonta* (Groupe de l'*A. avonica*) *marioni* – Locard 1893a: 294.
- + *Anodonta subrhombea* – Germain 1931: 773.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

maristorum Locard, 1890, *Anodonta*.

Anodonta (*Tricassiniana*) *maristorum* [ex Bourguignat ms]
Locard, 1890: *Contr. Faune Malac. Franç.* 14: 79, 219.

Syntype MNHN 22343: swamps of the Drava, at Osijek [Croatia]. Published French localities, “La Saône, à Neuville-sur-Saône [Bourguignat]; à Villevert et à Couzon; les fossés du fort de la Vitrioleire, le parc de la Tête-d’Or, à Lyon (Rhône); les environs de Nantes (Loire-Inférieure) [Loc.]; etc.” (Locard, 1890: 79).

- = *Anodonta* (Groupe de l'*A. miletti* [*sic*]) *maristorum* – Locard 1893a: 301, fig. 289†.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

marsolinae Locard, 1890, *Anodonta*.

Anodonta (*Cygnaeana*) *marsolinae* [ex Bourguignat ms]
Locard, 1890: *Contr. Faune Malac. Franç.* 14: 32, 117.

Syntype MNHN 22344: the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin].
Syntype MNHN 22345: Avignon [Dept. Vaucluse,

Rhône Basin]. Syntype MNHN 22346: the Saône, at Auxonne [Dept. Côte-d’Or, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published French localities, “Étang de Goven, près Rennes (Ille-et-Vilaine) [Bourguignat]; la Saône, à Auxonne (Côte-d’Or); la Grosne, à la Ferté et à Marnay (Saône-et-Loire) [Loc.]; le lac du Bourget (Savoie); l’étang de Meyranne, dans la Crau; le canal de Boucq à Arles (Bouches-du-Rhône) [Bourguignat]; les délaissés du Rhône, aux environs d’Avignon (Vaucluse) [Loc.]; etc.” (Locard 1890: 32).

- = *Anodonta* (Groupe de l'*A. cygnaea* [*sic*]) *marsolinae* – Locard 1893a: 241.
- + *Anodonta anatina* – Germain 1931: 757.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

materniacus Locard, 1889, *Unio*.

Unio (*Batavusiana*) *materniacus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 37, 97.

Lectotype (here designated) MNHN 22347: the Somme at Abbeville [Dept. Somme, Somme Basin]. Paralectotype MNHN 22348: the Seine, at Corbeil [Dept. Essonne, Seine Basin]. Paralectotype MNHN 22349: the Seine, at Charenton-le-Pont [Dept. Val-de-Marne, Seine Basin]. Paralectotype MNHN 22350: Pontoise-lès-Noyon [Dept. Val-d’Oise, Seine Basin]. Paralectotype MNHN 22351: the Meurthe, at Lunéville [Dept. Meurthe-et-Moselle, Rhin basin]. Paralectotype MNHN 22352: the Oise at Creil [Dept. Oise, Seine Basin]. Paralectotype MNHN 22353: the Oise at Compiègne [Dept. Oise, Seine Basin]. Paralectotype MNHN 22354: the Ornois [Dept. Meuse, Seine Basin].

- = *Unio materniacus* – Westerlund 1890: 78.
- = *Unio* (Groupe de l'*U. batavus*) *materniacus* – Locard 1893a: 168, fig. 182†.
- + *Unio batavus* – Germain 1931: 727.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

matronicus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. batavus*) *matronicus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 358.

Lectotype (here designated) MNHN 22355 and paralectotypes MNHN 22356 (4 spec.): the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin].

- = *Unio (Batavusiana) matronicus* – Locard 1889: 37.
- = *Unio batavus* var. *matronicus* – Westerlund 1890: 75.
- = *Unio* (Groupe de l'*U. batavus*) *matronicus* – Locard 1893a: 170.
- + *Unio batavus* – Germain 1931: 727.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

mea Locard, 1890, *Anodonta*.

Anodonta (Milletiana) mea [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 78, 214.

Syntype MNHN 22358: the Risle, at Pont-Audemer [Dept. Eure, Seine Basin]. Syntype MNHN 22359: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “La Seine, à Poissy (Seine-et-Oise) [Bourguignat]; la Marne, à Châlons-sur-Marne (Marne); la Seine, au nord de Rouen (Seine-Inférieure); la Rille, à Pont-Audemer (Eure); la Marne, près Château-Thierry (Aisne); la Marne, près Meaux (Seine-et-Marne); [Loc.]; etc.” (Locard 1890: 78).

- = *Anodonta* (Groupe de l'*A. pentagona*) *mea* – Locard 1893a: 302.
- + *Anodonta maculata* – Germain 1931: 771.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

melantatus Locard, 1889, *Unio*.

Unio (Ateriana) melantatus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 41, 110.

Lectotype (here designated) MNHN 22360 and paralectotype MNHN 22361: the Loire, at Balbigny [Dept. Loire, Loire Basin]. Paralectotype MNHN 22362: the Loire at Villerest [Dept. Loire, Loire Basin].

- = *Unio melantatus* – Westerlund 1890: 68.
- = *Unio* (Groupe de l'*U. ater*) *melantatus* – Locard 1893a: 177.
- + *Unio consentaneus* – Germain 1931: 732.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

melas Coutagne in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. crassus*) *melas* Coutagne in Locard, 1882: *Prodr. Malac. Franç.* 1: 285, 355.

Syntype MNHN 22363: Saulcy-sur-Meurthe [Dept. Vosges, Rhin basin]. The locality is written on the shell. The measured specimen may be in the Bourguignat or Coutagne collection. Published localities, “La Clange, dans la forêt de Chaux, dans le Jura (Bourguignat, col. Coutagne); le Mandray, à Saulcy-sur-Meurthe, dans les Vosges (Nob).” (Locard 1882: 285).

- = *Unio (Melasiana) melas* – Locard 1889: 22.
- = *Unio* (Groupe de l'*U. melas*) *melas* – Locard 1893a: 155, fig. 169.
- + *Unio mancus* var. *amnicus* – Germain 1931: 726.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

meretricis Locard, 1882, *Unio*.

Unio requieni [non Michaud, 1831] – Stabile 1859: *Prosp. sist. stat. Moll. Terr. Fluv. Lugano*: 62, fig. 76.

Unio (Groupe de l'*U. pornae*) *meretricis* [ex Bourguignat ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 295, 363.

Unio meretrix – Bourguignat 1883: *Aperçu Unionid. Pénins. Ital.*: 53. Incorrect subsequent spelling of *U. meretricis* (ICZN 1999: Art. 33.3).

No types were found in the Locard Collection. Exemplar specimen MNHN 22364: the Drée at Épinac [Dept. Saône-et-Loire, Loire Basin]. Published French localities, “Montafrôid, dans le Jura (Nob.).” (Locard, 1882: 295).

- = *Unio (Meretricisiana) meretricis* – Locard 1889: 50.
- = *Unio meretricis* – Westerlund 1890: 131.
- = *Unio* (Groupe de l'*U. requieni*) *meretricis* – Locard 1893a: 191, fig. 205.
- + *Unio requieni* – Germain 1931: 737.
- + *Unio elongatulus lawleyianus* – Haas 1940: 127; 1969: 39.

meridionalis Locard, 1890, *Anodonta*.

Anodonta (Milletiana) meridionalis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 77, 211.

Lectotype (here designated) MNHN 22365: precise locality unknown [presumably in the Rhône]. No

label indicating the locality was found with this specimen. Published localities, “Le Rhône, aux environs d’Avignon (Vaucluse); le Rhône, près Arles (Bouches-du-Rhône) [Loc.]; etc.” (Locard 1890: 121).

= *Anodonta* (Groupe de l’*A. miletti* [sic]) *meridionalis* – Locard 1893a: 299, fig. 288†.

+ *Anodonta subrhombea* – Germain 1931: 773.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

merularum Locard, 1890, *Anodonta*.

Anodonta (*Camuriana*) *merularum* [ex Pechaud ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 66, 187.

No types were found in the Locard Collection. Exemplar specimen MNHN 22366: the Vienne, “à Poitiers” [=? Chauvigny, Dept. Vienne, Loire Basin]. The measured syntype is presumed to be in either the Pechaud or Bourguignat collection. Published localities, “Ruisseau des Merles, à Aulezy et Saint-Maurice, près Saint-Saulge (Nièvre) [Pechaud, Bourguignat]; etc.” (Locard 1890: 66).

= *Anodonta* (Groupe de l’*A. anatina*) *merularum* – Locard 1893a: 284.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

meyrannicus Bourguignat in Locard, 1889, *Unio*.

Unio (*Gallicusiana*) *meyrannicus* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 49, 122.

Possible syntypes MNHN 22367 (4 spec.): “Étang de Meyranne” [near Arles, Dept. Bouches-du-Rhône, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection.

?= *Unio meyrannicus* – Westerlund 1890: 130.

= *Unio* (Groupe de l’*U. gallicus*) *meyrannicus* – Locard 1893a: 190.

+ *Unio requieni* – Germain 1931: 737.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

michaudi Locard, 1889, *Margaritana*.

Unio elongata [non Lamarck, 1819] – Michaud 1831: *Compl. Hist. Nat. Moll. Drap.*: pl. 16, fig. 29†.

Margaritana michaudi Locard, 1889: *Contr. Faune Malac. Franç.* 13: 17, 74.

Lectotype (here designated) figured specimen (not seen): the Sarsonne, at Ussel [Dept. Corrèze, Garonne Basin]. Paralectotype MNHN 22368: Vire [Dept. Calvados, Vire Basin]. Paralectotype MNHN 22369: the Ance, near Viverols [Dept. Puy-de-Dôme, Loire Basin]. Paralectotype MNHN 22370: Les Loges-Marchis [Dept. Manche, Sélune Basin]. Paralectotype MNHN 22371: the Bèsbre [Dept. Allier, Loire Basin].

+ *Margaritana margaritifera* – Westerlund 1890: 185; Germain 1931: 717.

= *Margaritana michaudi* – Locard 1893a: 150.

+ *Margaritifera margaritifera margaritifera* – Haas 1940: 120.

+ *Margaritifera* (s.s.) *margaritifera margaritifera* – Haas 1969: 11.

+ *Margaritifera margaritifera* – Araujo et al. 2009a: 21.

milneedwardsi Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l’*U. saint-simonianus*) *milneedwardsi* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 287, 357.

Unio (*Turtoniana*) *mineedwardsi* Bourguignat – Locard 1889: *Contr. Faune Malac. Franç.* 13: 45. Incorrect subsequent spelling of *U. milneedwardsi* (ICZN 1999: Art. 33.3).

No specimens were found in the Locard Collection. The type series is presumed to be in the Bourguignat Collection. Published locality, “Lac de la Négresse, près de Bayonne, dans les Basses-Pyrénées (Bourguignat).” (Locard 1882: 287).

?= *Unio milne-edwardsi* – Westerlund 1890: 163.

= *Unio* (Groupe de l’*U. turtoni*) *milne-edwardsi* – Locard 1893a: 183.

+ *Unio pictorum platyrhynchoideus* [sic] – Haas 1940: 123; 1969: 27.

miranella Locard, 1884, *Anodonta*.

Anodonta (*Milletiana*) *miranella* [ex Bourguignat ms] Locard, 1884: *Contr. Faune Malac. Franç.* 8: 41.

Lectotype (here designated) MNHN 22372: the Saône at Collonges-au-Mont-d’Or [Dept. Rhône, Rhône Basin].

= *Anodonta* (*Euanodonta*) *miranella* – Westerlund 1890: 292.

= *Anodonta* (*Arnouldiana*) *miranella* – Locard 1890: 86.

= *Anodonta* (Groupe de l'*A. arnouldi*) *miranella* – Locard 1893a: 307, fig. 294†.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

mitis Locard, 1890, *Anodonta*.

Anodonta (*Camuriana*) *mitis* [ex Bourguignat & Pechaud ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 66, 188.

Lectotype (here designated) MNHN 22373: the Brizotte [Dept. Côte-d'Or, Rhône Basin].

= *Anodonta* (Groupe de l'*A. anatina*) *mitis* – Locard 1893a: 284, fig. 276†.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

mitula Locard, 1890, *Anodonta*.

Anodonta (*Gestroiana*) *mitula* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 54, 163.

Holotype (monotypy) MNHN 22374: the Rhône, at Vienne [Dept. Isère, Rhône Basin].

= *Anodonta* (Groupe de l'*A. rossmassleriana*) *mitula* – Locard 1893a: 269.

?+ *Anodonta rostrata* – Germain 1931: 766.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

mongazonae Bourguignat in Locard, 1890,
Pseudanodonta.

"*Pseudanodonta mongazonae*" Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Scrupeana*) *mongazonae* Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 13, 94.

No types were found in the Locard Collection. Exemplar specimen MNHN 22375: "la Puy-de-Dôme" [Dept. Puy-de-Dôme, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "La Loire, au port Thibaut, près Angers (Maine-et-Loire) [Bourguignat]." (Locard 1890: 13).

= *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *mongazonae* – Locard 1893a: 220.

+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

montapasi Locard, 1890, *Anodonta*.

Anodonta (*Westerlundiana*) *montapasi* [ex Bourguignat & Pechaud ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 69, 196.

No types were found in the Locard Collection. Exemplar specimen MNHN 22376: the Loire, at Balbigny [Dept. Loire, Loire Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "L'Aron, à Montapas (Nièvre) [Bourguignat]." (Locard 1890: 69).

= *Anodonta* (Groupe de l'*A. anatina*) *montapasi* – Locard 1893a: 288.

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

morini Locard, 1893, *Pseudanodonta*.

Pseudanodonta (Groupe du *P. elongata*) *morini* Locard, 1893a: *Coq. eaux douces saumâtres France*: 224.

Lectotype (here designated) MNHN 22377: the Huisne, at Montfort-le-Gesnois [Dept. Sarthe, Loire Basin].

+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 379.

mucidellus Bourguignat in Locard, 1889, *Unio*.

Unio (*Mucidusiana*) *mucidellus* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 54, 133.

Syntype MNHN 22378: the Aron at Saint-Maurice [Dept. Nièvre, Loire Basin]. Syntype MNHN 22379: the Albane [Dept. Côte-d'Or, Rhône Basin]. Syntype MNHN 22380: the Vienne, at Limoges [Dept. Haute-Vienne, Loire Basin]. Syntype MNHN 22381: the Canne, at "Pontillard" [=? Jailly, Dept. Nièvre, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, "Le

Ternin, à Autun (Saône et Loire) [Bourguignat]; la Canne, à Pontillard; l'Aroz [*sic*], à Saint-Maurice (Nièvre); l'Albane (Côte-d'Or); la Vienne, à Limoges (Haute-Vienne) [Loc.]; etc." (Locard 1889: 54, 55).

= *Unio mucidellus* – Westerlund 1890: 138.

= *Unio* (Groupe de l'*U. requieni*) *mucidellus* – Locard 1893a: 193, fig. 207.

+ *Unio requieni* – Germain 1931: 737.

+ *Unio elongatulus bourgeticus* – Haas 1940: 125; 1969: 34.

mucidulinus Locard, 1889, *Unio*.

Unio (Asticusiana) mucidulinus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 62, 143.

Lectotype (here designated) MNHN 22382: "Varrennes" [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22383: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin].

= *Unio mucidulinus* – Westerlund 1890: 111.

= *Unio* (Groupe de l'*U. tumens*) *mucidulinus* – Locard 1893a: 206.

+ *Unio requieni* var. *pornae* – Germain 1931: 739.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

mucidulus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. rostratus*) *mucidulus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 298, 366.

No types were found in the Locard Collection. Exemplar specimen MNHN 22384: the Saône, at Saint-Germain-au-Mont-d'Or [Dept. Rhône, Rhône Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, "La Seine, à Chatou, Port-Marly, le Pecq, Poissy, etc., dans Seine-et-Oise (Bourguignat); la Loire, à Nevers (Nob.)." (Locard 1882: 298).

= *Unio (Asticusiana) mucidulus* – Locard 1889: 62.

≠ *Unio mucidulus* – Westerlund 1890: 181.

= *Unio* (Groupe de l'*U. tumens*) *mucidulus* – Locard 1893a: 206, fig. 219.

+ *Unio requieni* var. *pornae* – Germain 1931: 739.

+ *Unio elongatulus mancus* – Haas 1940: 126; 1969: 36.

+ *Unio mancus* – Araujo et al. 2009a: 33.

nantelica Bourguignat in Locard, 1890, *Pseudanodonta*.

"*Pseudanodonta nantelica*" Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (Rossmässleriana) nantelica Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 12, 87.

Syntypes MNHN 22400 (6 spec.): the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, "L'Erdre, au-dessus de Nantes [Bourguignat]; la Loire, à Ingrandes et aux environs de Nantes [Loc.] (Loire-Inférieure); etc." (Locard 1890: 12).

= *Pseudanodonta* (Groupe du *P. grateloupiana* [*sic*]) *nantelica* – Locard 1893a: 218.

+ *Pseudanodonta elongata* – Germain 1931: 746; Haas 1940: 139; 1969: 378.

nanusopsis Locard, 1890, *Anodonta*.

Anodonta (Unioniformiana) nanusopsis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 72, 203.

Holotype (monotypy) MNHN 22401: Montmorot [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. unioniformis*) *nanusopsis* – Locard 1893a: 293.

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

nevirnensis Locard, 1884, *Anodonta*.

Anodonta (Pammegaliana) nevirnensis [ex Pechaud ms] Locard, 1884: *Contr. Faune Malac. Franç.* 8: 7.

Lectotype (here designated) MNHN 22403: Saint-Laurent-sur-Saône [Dept. Ain, Rhône Basin].

= *Anodonta (Pammegaliana) nevirnensis* – Locard 1890: 19.

= *Anodonta (Euanodonta) nevirnensis* – Westerlund 1890: 201.

= *Anodonta* (Groupe de l'*A. pammegala*) *nevirnensis* – Locard 1893a: 228.

+ *Anodonta cygnaea* [*sic*] – Germain 1931: 753.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***nicolloni* Locard, 1890, *Anodonta*.**

Anodonta (*Tricassiniana*) *nicolloni* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 81, 222.

Lectotype (here designated) MNHN 22402 and paralectotypes MNHN 24468 (2 spec.): Nantes [Dept. Loire-Atlantique, Loire Basin]. Paralectotypes MNHN 24469 (2 spec.): (illegible) [Dept. Loire-Atlantique, Loire Basin].

= *Anodonta* (Groupe de l'*A. arnouldi*) *nicolloni* – Locard 1893a: 307.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***nicolloni* Locard, 1889, *Unio*.**

Unio (*Sperchinosiana*) *nicolloni* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 35, 94.

Holotype (monotypy) MNHN 22404: Nantes [Dept. Loire-Atlantique, Loire Basin].

= *Unio nicolloni* – Westerlund 1890: 82.

= *Unio* (Groupe de l'*U. batavus*) *nicolloni* – Locard 1893a: 173.

+ *Unio batavus* – Germain 1931: 728.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

***nitefacta* Locard, 1890, *Anodonta*.**

Anodonta (*Tricassiniana*) *nitefacta* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 81, 223.

Lectotype (here designated) MNHN 22405: Neuville-sur-Saône [Dept. Rhône, Rhône Basin].

= *Anodonta* (Groupe de l'*A. pentagona*) *nitefacta* – Locard 1893a: 305.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***noeli* Locard, 1890, *Anodonta*.**

Anodonta (*Cygnaeana*) *noeli* [ex Bourguignat & Locard ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 29, 111.

Lectotype (here designated) MNHN 22406: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin]. Paralectotype MNHN 22409: ditches of Gerland

(= "la Mouche") at Lyon [Dept. Rhône, Rhône Basin]. There are eight more paralectotypes from various localities (MNHN 22407-22408, 22410-22413).

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *noeli* – Locard 1893a: 236; fig. 243, 1899: 269.

+ *Anodonta cygnaea* [sic] – Germain 1931: 753.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***nubilus* Locard, 1889, *Unio*.**

Unio (*Nubilusiana*) *nubilus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 32, 92. Junior primary homonym of *U. nubilus* Lea, 1868 = *Elliptio complanata* (Lightfoot, 1786) *vide* Johnson (1970) (ICZN 1999: Art. 57.2).

Lectotype (here designated) MNHN 22414 and paralectotypes MNHN 22415 (4 spec.): La Verpillière [Dept. Isère, Rhône Basin]. Paralectotype MNHN 22418: the Albane [Dept. Côte-d'Or, Rhône Basin]. Paralectotype MNHN 22419: the Tille [Dept. Côte-d'Or, Rhône Basin].

= *Unio nubilus* – Westerlund 1890: 166.

= *Unio* (Groupe de l'*U. locardianus*) *nubilus* – Locard 1893a: 165, fig. 179.

+ *Unio mancus* var. *elongatulus* – Germain 1931: 727.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***nycterina* Bourguignat, 1881, *Anodonta*.**

Anodonta anatina [non *Mytilus anatinus* Linnaeus, 1758] – Drouët, 1854: *Rev. Mag. Zool.*: pl. 4, fig. 1.

Anodonta (*Westerlundiana*) *nycterina* Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 104, 266.

Syntype MNHN 22420: the Menthon [Dept. Ain, Rhône Basin].

= *Anodonta* (Groupe de l'*A. westerlundi*) *nycterina* – Locard 1882: 276.

= *Anodonta* (*Idriniana*) *nycterina* – Locard 1890: 62.

= *Anodonta* (Groupe de l'*A. anatina*) *nycterina* – Locard 1893a: 280.

+ *Anodonta avonensis* – Germain 1931: 761.

***oberthurianus* Bourguignat in Locard, 1889, *Unio*.**

Unio (*Holandriana*) *oberthurianus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 62, 142.

No types were found in the Locard Collection. Exemplar specimen MNHN 22421: the Grosne, at Marnay [Dept. Saône-et-Loire, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “Canal de Bretagne, à Saint-Congard (Morbihan) [Bourguignat].” (Locard 1889: 62).

- = *Unio oberthurianus* – Westerlund 1890: 108.
- = *Unio* (Groupe de l'*U. tumens*) *oberthurianus* – Locard 1893a: 206.
- + *Unio requieni* var. *pornae* – Germain 1931: 739.
- + *Unio elongatulus mancus* – Haas 1940: 126; 1969: 36.
- + *Unio mancus* – Araujo *et al.* 2009a: 33.

***obnixa* Locard, 1890, *Anodonta*.**

Anodonta (*Brotiana*) *obnixa* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 53, 161.

Lectotype (here designated) MNHN 22422: Rhône-Rhine Canal, near Mulhouse [Dept. Haut-Rhin, Rhin basin]. Paralectotype MNHN 22423: Nantes [Dept. Loire-Atlantique, Loire Basin].

- = *Anodonta* (Groupe de l'*A. rossmassleriana*) *obnixa* – Locard 1893a: 268, fig. 263†.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***occidentalis* Locard, 1889, *Unio*.**

Unio (*Ateriana*) *occidentalis* [ex Bourguignat ms] Locard *non* Conrad, 1889: *Contr. Faune Malac. Franç.* 13: 43, 114. Junior primary homonym of *U. occidentalis* Conrad, 1836 = *Ptychobranthus occidentalis* (ICZN 1999: Art. 57.2).

Lectotype (here designated) MNHN 22424: the Loire, at Balbigny [Dept. Loire, Loire Basin].

- = *Unio occidentalis* – Westerlund 1890: 69.
- = *Unio* (Groupe de l'*U. ater*) *occidentalis* – Locard 1893a: 180, 1899: 220.
- + *Unio consentaneus* – Germain 1931: 732.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***octavius* Locard, 1893, *Unio*.**

Unio (Groupe de l'*U. tumens*) *octavius* [ex Bourguignat ms] Locard, 1893a: *Coq. eaux douces saumâtres France*: 203.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “... la Seine au Pecq (Seine-et-Oise).” (Locard 1893a: 203).

?+ *Unio requieni* var. *pornae* – Germain 1931: 739.

***oesiacus* Locard, 1889, *Unio*.**

Unio (*Desfontainiana*) *oesiacus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 58, 135.

Lectotype (here designated) MNHN 22425: the Oise, at Pontoise-lès-Noyon [Dept. Val-d'Oise, Seine Basin]. Paralectotype MNHN 22426: the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin].

- = *Unio oesiacus* – Westerlund 1890: 125.
- = *Unio* (Groupe de l'*U. gestroianus*) *oesiacus* – Locard 1893a: 198.
- + *Unio requieni* – Germain 1931: 737.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***orbis* Locard, 1889, *Unio*.**

Unio (*Locardiana*) *orbis* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 32, 89.

Lectotype (here designated) MNHN 22427 and paralectotype MNHN 22428: “Pentoise” [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22429: the Menthon [Dept. Ain, Rhône Basin]. Paralectotype MNHN 22430: Gigny [Dept. Jura, Rhône Basin].

- = *Unio orbis* – Westerlund 1890: 89.
- = *Unio* (Groupe de l'*U. locardianus*) *orbis* – Locard 1893a: 165.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***orivalensis* Locard, 1890, *Anodonta*.**

Anodonta (*Arnouldiana*) *orivalensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 85, 226.

Lectotype (here designated) MNHN 22431: the Loire, Ingrandes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. Paralectotype MNHN 22432: Orival [Dept. Seine-Maritime, Seine Basin].

= *Anodonta* (Groupe de l'*A. arnouldi*) *orivalensis* – Locard 1893a: 306.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***orthellus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. elongatulus*) *orthellus* [ex Béranguier ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 288, 357.

Lectotype (here designated) MNHN 22433 and paralectotype MNHN 22434: the “Grande-Garonne” at Fréjus [Dept. Var, Argens Basin].

= *Unio* (*Elongatulusiana*) *orthellus* – Locard 1889: 34.

= *Unio orthellus* – Westerlund 1890: 165.

= *Unio* (Groupe de l'*U. elongatulus*) *orthellus* – Locard 1893a: 166.

+ *Unio mancus* var. *elongatulus* – Germain 1931: 727.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***orthus* Coutagne in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. elongatulus*) *orthus* Coutagne in Locard, 1882: *Prodr. Malac. Franç.* 1: 288, 357.

Possible syntype MNHN 22435: the Albane [Dept. Côte-d'Or, Rhône Basin]. The measured syntype is presumed to be in either the Bourguignat or Coutagne collection. Published locality, “L’Albane, près Vonges, dans la Côte-d’Or (col. Coutagne, Bourguignat).” (Locard 1882: 288).

= *Unio* (*Elongatulusiana*) *orthus* – Locard 1889: 33.

?= *Unio orthus* – Westerlund 1890: 165.

= *Unio* (Groupe de l'*U. elongatulus*) *orthus* – Locard 1893a: 166.

+ *Unio mancus* var. *elongatulus* – Germain 1931: 727.

+ *Unio elongatulus bourgeticus* – Haas 1940: 125; 1969: 34.

***ovularis* Locard, 1890, *Anodonta*.**

Anodonta (*Ovuliana*) *ovularis* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 67, 191.

Lectotype (here designated) MNHN 22436: Marboz [Dept. Ain, Rhône Basin]. Paralectotype MNHN 22437: the Brizotte [Dept. Côte-d’Or, Rhône Basin].

= *Anodonta* (Groupe de l'*A. anatina*) *ovularis* – Locard 1893a: 286, fig. 277†.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

***oxyrhynchus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. crassus*) *oxyrhynchus* [ex Brevière ms] Bourguignat in Locard non von Martens, 1882: *Prodr. Malac. Franç.* 1: 285, 355. Junior primary homonym of *U. oxyrhynchus* von Martens, 1861 = *Lanceolaria oxyrhyncha* (ICZN 1999: Art. 57.2).

Lectotype (here designated) MNHN 22438: the Canne [Dept. Nièvre, Loire Basin].

= *Unio* (*Ateriana*) *oxyrhynchus* – Locard 1889: 43.

= *Unio* (Groupe de l'*U. ater*) *oxyrhynchus* – Locard 1893a: 180.

= *Unio consentaneus* var. *oxyrhynchus* – Germain 1931: 733.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

***pacomei* Bourguignat in Locard, 1890, *Pseudanodonta*.**

“*Pseudanodonta pacomei*” Servain, 1890: *Bull. Soc. Malac. France* 7: 302. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Elongatiana*) *pacomei* Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 17, 102.

Possible syntype MNHN 22439: the Saône at Neuville-sur-Saône [Dept. Rhône, Rhône Basin]. The measured syntype is presumed to be in either the Bourguignat or Pacôme collection.

= *Pseudanodonta* (Groupe du *P. elongata*) *pacomei* – Locard 1893a: 225.

+ *Pseudanodonta dorsuosa* – Germain 1931: 749.

+ *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***pacomei* Bourguignat in Locard, 1889, *Unio*.**

Unio (*Simonisiana*) *pacomei* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 20, 79.

Syntype MNHN 22440: Couzon-au-Mont-d’Or [Dept. Rhône, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published

localities, “La Saône, à Saint-Germain-au-Mont-d’Or [Bourguignat]; à Couzon, à Collonges (Rhône); la Saône, à Tournus, Varennes et Châlon-sur-Saône; la Grosne, à La Ferté et à Marnay (Saône-et-Loire); le Rhône, au sud de Vienne (Isère) [Loc.]; etc.” (Locard 1889: 20).

- = *Unio pacomei* – Westerlund 1890: 54.
- = *Unio* (Groupe de l’*U. rhomboideus*) *pacomei* – Locard 1893a: 154.
- + *Psilunio littoralis* – Germain 1931: 720.
- + *Psilunio littoralis littoralis* – Haas 1940: 134.
- + *Potomida littoralis littoralis* – Haas 1969: 272.
- + *Potomida littoralis* – Araujo et al. 2009a: 29.

***pamboni* Locard, 1890, *Anodonta*.**

Anodonta (*Gastrodiana*) *pamboni* [ex F. Pacôme ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 40, 134.

No types were found in the Locard Collection. Exemplar specimen MNHN 22441: near Bourgen-Bresse [Dept. Ain, Rhône Basin]. The measured syntype is presumed to be in either the Bourguignat or Pacôme collection. Published localities, “La Saône, à Neuville-sur-Saône et à Couzon; les fossés du fort de la Vitriolerie, à Lyon [Bourguignat, Pacôme, Loc.]; etc.” (Locard 1890: 40).

- = *Anodonta* (Groupe de l’*A. glyca*) *pamboni* – Locard 1893a: 251.
- + *Anodonta avonensis* – Germain 1931: 761.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***passavanti* Bourguignat in Locard, 1889, *Unio*.**

Unio (*Mariana*) *passavanti* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 53, 132.

Possible syntype MNHN 22442: Passavant-la-Rochère [Dept. Haute-Saône, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection.

- = *Unio passavanti* – Westerlund 1890: 135.
- = *Unio* (Groupe de l’*U. ater*) *passavanti* – Locard 1893a: 178.
- + *Unio consentaneus* var. *moquini* – Germain 1931: 734.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***pechaudi* Bourguignat in Locard, 1890, *Pseudanodonta*.**

“*Pseudanodonta pechaudi*” Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Rossmässleriana*) *pechaudi* Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 12, 88.

Syntype MNHN 22443: the Grosne, at La Ferté-sur-Grosne [Dept. Saône-et-Loire, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published locality, “La Nièvre, à sa jonction avec la Loire [Bourguignat]; La Grosne, à La Ferté et à Marnay; la Saône, près Chalon-sur-Saône (Saône-et-Loire) [Loc.]; etc.” (Locard 1890: 12).

- = *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *pechaudi* – Locard 1893a: 218.
- + *Pseudanodonta dorsuosa* – Germain 1931: 749.
- + *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***pelaeca* Bourguignat in Locard, 1882, *Anodonta*.**

Anodonta (Groupe de l’*A. milleti*) *pelaeca* [ex Servain ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 281, 353.

Anodonta (*Piscinaliana*) *peleca* “Servain” – Locard 1890: *Contr. Faune Malac. Franç.* 14: 84. Incorrect subsequent spelling of *A. pelaeca* (ICZN 1999: Art. 33.3).

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Servain Collection. Published locality, “Le Thouet, à Saumur, dans le Maine-et-Loire (Servain).” (Locard 1882: 281)

- = *Anodonta* (*Euanodonta*) *pelaeca* – Westerlund 1890: 289.
- = *Anodonta* (Groupe de l’*A. arnouldi*) *peleca* [sic] – Locard 1893a: 309.
- + *Anodonta anatina* – Germain 1931: 758.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 339.

***pelecina* Locard, 1890, *Anodonta*.**

Anodonta (*Cygnaeana*) *pelecina* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 33, 121.

Lectotype (here designated) MNHN 22444: Brainans [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *pelecina* – Locard 1893a: 242, fig. 246†.

+ *Anodonta avonensis* – Germain 1931: 761.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***pentagona* Locard, 1890, *Anodonta*.**

Anodonta (*Milletiana*) *pentagona* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 78, 215.

Lectotype (here designated) MNHN 22445 and paralectotype MNHN 22446: near Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22448: Elbeuf [Dept. Seine-Maritime, Seine Basin].

= *Anodonta* (Groupe de l'*A. pentagona*) *pentagona* – Locard 1893a: 302, fig. 290†.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***perardua* Locard, 1890, *Anodonta*.**

Anodonta (*Gastrodiana*) *perardua* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 40, 136.

Holotype (monotypy) MNHN 22449: the Suran, at Saint-Julien [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. glyca*) *perardua* – Locard 1893a: 251.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***perrieri* Locard, 1890, *Anodonta*.**

Anodonta (*Milletiana*) *perrieri* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 77, 210.

Lectotype (here designated) MNHN 22450: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin].

= *Anodonta* (Groupe de l'*A. miletti* [sic]) *perrieri* – Locard 1893a: 299.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

***perroudi* Locard, 1884, *Anodonta*.**

Anodonta (*Cygnaeana*) *perroudi* Locard, 1884: *Contr. Faune Malac. Franç.* 8: 17.

Lectotype (here designated) MNHN 22451 and paralectotype MNHN 22453: the Rhône “au confluent”, La Mulatière [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22452: “Fort des Hirondelles” at Lyon [Dept. Rhône, Rhône Basin].

= *Anodonta* (*Cygnaeana*) *perroudi* – Locard 1890: 29.

= *Anodonta* (*Euanodonta*) *perroudi* – Westerlund 1890: 272.

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *perroudi* – Locard 1893a: 238, fig. 244†.

+ *Anodonta cygnaea* [sic] – Germain 1931: 753.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***perroudi* Locard, 1889, *Unio*.**

Unio (*Courquiniana*) *perroudi* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 58, 136.

Lectotype (here designated) MNHN 22454 and paralectotypes MNHN 22455 (2 spec.): Fort de la Vitriolerie, at Lyon [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22456: Auxonne [Dept. Côte-d'Or, Rhône Basin].

= *Unio perroudi* – Westerlund 1890: 126.

= *Unio* (Groupe de l'*U. rostratus*) *perroudi* – Locard 1893a: 209.

+ *Unio tumidus* var. *rostratus* – Germain 1931: 742.

+ *Unio crassus batavus* – Haas 1940: 131.

+ *Unio pictorum rostratus* – Haas 1940: 122; 1969: 26.

***philypna* Locard, 1890, *Anodonta*.**

Anodonta (*Jourdheuiliana*) *philypna* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 57, 170.

Lectotype (here designated) MNHN 22457: Ingrandes-sur-Loire near Nantes [Dept. Maine-et-Loire, Loire Basin]. Paralectotype MNHN 22459: the Loire, at Saumur [Dept. Maine-et-Loire, Loire Basin]. Paralectotype MNHN 22458: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin].

= *Anodonta* (Groupe de l'*A. jourdheuli*) *philypna* – Locard 1893a: 274.

- + *Anodonta anatina* – Germain 1931: 758.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***pilloti* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. mancus*) *pilloti* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 291, 360.

No types were found in the Locard Collection. Exemplar specimen MNHN 22460: Passavant-la-Rochère [Dept. Haute-Saône, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “La Laignes, aux Riceys, dans l’Aube (Bourguignat).” (Locard 1882: 291).

- = *Unio (Mancusiana) pilloti* – Locard 1889: 22.
- = *Unio mancus* var. *pilloti* – Westerlund 1890: 85.
- = *Unio* (Groupe de l'*U. mancus*) *pilloti* – Locard 1893a: 157.
- + *Unio mancus* – Germain 1931: 724.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

***pinciatus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. danielis*) *pinciatus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 294, 362.

No types were found in the Locard Collection. Exemplar specimen MNHN 22461: the Marne at Châlons-en-Champagne [Dept. Marne, Seine Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “La Seine, à Poissy, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 294).

- = *Unio (Holandriana) pinciatus* – Locard 1889: 61.
- ?= *Unio pinciatus* – Westerlund 1890: 181.
- = *Unio* (Groupe de l'*U. danielis*) *pinciatus* – Locard 1893a: 201.
- + *Unio requieni* – Germain 1931: 737.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***ponderiformis* Locard, 1890, *Anodonta*.**

Anodonta ponderosa [non C. Pfeiffer, 1825] – Dupuy 1851: *Hist. Natur. Moll. France* 4: pl. 18, fig. 12.

Anodonta (Adamiana) ponderiformis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 41, 137.

Lectotype (here designated) MNHN 22462: area around Clermont [Dept. Haute-Savoie, Rhône Basin]. Paralectotype MNHN 22463: Lunéville [Dept. Meurthe-et-Moselle, Rhin basin].

- = *Anodonta* (Groupe de l'*A. subponderosa*) *ponderiformis* – Locard 1893a: 252.
- = *Anodonta avonensis* var. *ponderiformis* – Germain 1931: 765.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***popularis* Locard, 1890, *Anodonta*.**

Anodonta (Carvalhoiana) popularis [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 46, 144.

No types were found in the Locard Collection. Exemplar specimen MNHN 22464: Marboz [Dept. Ain, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, “Le Beaureplet (Nièvre) [Bourguignat].” (Locard 1890: 46).

- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *popularis* – Locard 1893a: 259.
- + *Anodonta anatina* – Germain 1931: 758.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

***pornae* Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. pornae*) *pornae* [ex Bourguignat ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 295, 363.

Lectotype (here designated) MNHN 22465 and paralectotype MNHN 22466: the Saône, at Mâcon [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22467: Saint-Laurent-sur-Saône, near Mâcon [Dept. Ain, Rhône Basin]. Paralectotype MNHN 22468: the Rhône “au confluent” [= Lyon, Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22469: the Rhône at Irigny [Dept. Rhône, Rhône Basin].

- = *Unio pornae* – Bourguignat 1883: 52; Westerlund 1890: 131.
- = *Unio (Porniana) pornae* – Locard 1889: 54.
- = *Unio* (Groupe de l'*U. gestroianus*) *pornae* – Locard 1893a: 195, fig. 206.
- = *Unio requieni* var. *pornae* – Germain 1931: 738.
- + *Unio elongatulus lawleyianus* – Haas 1940: 127; 1969: 39.

potamius Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. batavus*) *potamius* Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 359.

No types were found in the Locard Collection. Exemplar specimen MNHN 22470: the Brizotte [Dept. Côte-d'Or, Rhône Basin]. Published French locality, "L'Albane, affluent de la Bèze, dans la Côte-d'Or (Bourguignat)." (Locard, 1882: 289).

- = *Unio* (*Ellipsopsisiana*) *potamius* – Locard 1889: 34.
- = *Unio batavus* var. *potamius* – Westerlund 1890: 76.
- = *Unio* (Groupe de l'*U. batavus*) *potamius* – Locard 1893a: 169.
- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

prolatus Locard, 1893, *Unio*.

Unio (Groupe de l'*U. turtoni*) *prolatus* [ex Bourguignat ms] Locard, 1893a: *Coq. eaux douces saumâtres France*: 182.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "... l'Arconce à Charolles (Saône-et-Loire)." (Locard 1893a: 182).

- + *Unio turtoni* – Germain 1931: 730.

pygmaea Locard, 1890, *Anodonta*.

Anodonta (*Camuriana*) *pygmaea* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 66, 189.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "Montapas, près Saint-Saulge (Nièvre) [Bourguignat]." (Locard 1890: 66).

- = *Anodonta* (Groupe de l'*A. anatina*) *pygmaea* – Locard 1893a: 285.
- + *Anodonta anatina* – Germain 1931: 758.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

pyrenaica Locard, 1890, *Anodonta*.

Anodonta (*Rostratiana*) *pyrenaica* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 55, 166.

Lectotype (here designated) MNHN 22476 and paralectotype MNHN 22477: Sare [Dept. Pyrénées-Atlantiques, Nivelle Basin].

- = *Anodonta* (Groupe de l'*A. rossmassleriana*) *pyrenaica* – Locard 1893a: 269.
- = *Anodonta rostrata* var. *pyrenaica* – Germain 1931: 768.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

pyrenaica Bourguignat in Locard, 1889, *Margaritana*.

Margaritana pyrenaica Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 17, 75.

Syntype MNHN 22478: Carcenac-Peyralès [Dept. Aveyron, Garonne Basin]. Syntype MNHN 22479: the Ance, near Viverols [Dept. Puy-de-Dôme, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, "Vic-de-Bigorre (Hautes-Pyrénées) [Bourguignat]; Carcenac (Aveyron); l'Ance, près de Viverolles (Puy-de-Dôme) [Loc.]; etc." (Locard 1889: 17).

- + *Margaritana margaritifera* – Westerlund 1890: 186; Germain 1931: 717.
- = *Margaritana pyrenaica* – Locard 1893a: 150.
- + *Margaritifera margaritifera margaritifera* – Haas 1940: 120.
- + *Margaritifera* (s.s.) *margaritifera margaritifera* – Haas 1969: 11.
- + *Margaritifera margaritifera* – Araujo et al. 2009a: 21.

rathymus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. rhomboideus*) *rathymus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 284, 354.

No types were found in the Locard Collection. Exemplar specimen MNHN 22482: the Seine near Paris [Dept. Paris, Seine Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "Le Seine, à Troyes et au-dessus de Paris, au Pecq et à Poissy (Bourguignat)." (Locard 1882: 284).

- = *Unio* (*Rhomboidiana*) *rathymus* – Locard 1889: 19.
- = *Unio rathymus* – Westerlund 1890: 53.
- = *Unio* (Groupe de l'*U. rhomboideus*) *rathymus* – Locard 1893a: 152, fig. 166; 1899: 215.
- + *Psilunio littoralis* – Germain 1931: 720.

- + *Psilunio littoralis littoralis* – Haas 1940: 134.
- + *Potomida littoralis littoralis* – Haas 1969: 272.
- + *Potomida littoralis* – Araujo *et al.* 2009a: 29.

rayi Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. mancus*) *rayi* Bourguignat in Locard 1882: *Prodr. Malac. Franç.* 1: 291, 360.

Lectotype (here designated) MNHN 22483: Gigny [Dept. Jura, Rhône Basin]. Paralectotypes MNHN 22484 (2 spec.): Saint-Amour [Dept. Jura, Rhône Basin].

- = *Unio* (*Nanusiana*) *rayi* – Locard 1889: 21.
- = *Unio rayi* – Westerlund 1890: 84.
- = *Unio* (Groupe de l'*U. nanus*) *rayi* – Locard 1893a: 155.
- + *Unio mancus* – Germain 1931: 724.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

rectus Locard, 1893, *Unio*.

Unio (Groupe de l'*U. tumens*) *rectus* Locard non Lamarck, 1893a: *Coq. eaux douces saumâtres France*: 207. Junior primary homonym of *U. recta* Lamarck, 1819 = *Ligumia recta* (ICZN 1999: Art. 57.2).

Lectotype (here designated) MNHN 22485: the Rhône, at Vienne [Dept. Isère, Rhône Basin]. Paralectotype MNHN 22486: Vers-en-Montagne [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22487: the Grosne, at Marnay [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22488: the Drée [Dept. Saône-et-Loire, Loire Basin]. Paralectotype MNHN 22489: the Saône [Dept. Saône-et-Loire, Rhône Basin]. Paralectotypes MNHN 22490 (2 spec.): the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin]. Paralectotypes MNHN 22491 (2 spec.): the Marne, at Chelles [Dept. Seine-et-Marne, Seine Basin].

- + *Unio requieni* var. *pornae* – Germain 1931: 739.
- + *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

renei Locard, 1882, *Unio*.

Unio (Groupe de l'*U. renei*) *renei* Locard, 1882: *Prodr. Malac. Franç.* 1: 294, 362.

Syntype MNHN 22492: “les Landes” [Dept. Landes, minor coastal basin]. Measured specimen not found.

- = *Unio* (*Jacqueminiana*) *renei* – Locard 1889: 50.
- ?= *Unio renei* – Westerlund 1890: 128.
- = *Unio* (Groupe de l'*U. platyrhynchoideus*) *renei* – Locard 1893a: 187.
- + *Unio requieni* var. *platyrhynchoideus* [*sic*] – Germain 1931: 740.

riciacensis Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. elongatulus*) *riciacensis* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 288, 357.

No types were found in the Locard Collection. Exemplar specimen MNHN 22493: Mont-sous-Vaudrey [Dept. Jura, Rhône Basin]. The type series is presumed to be in the Bourguignat Collection. Published locality, “La Laignes, aux Riceys, dans l’Aube (Bourguignat).” (Locard 1882: 288).

- = *Unio* (*Elongatulusiana*) *riciacensis* – Locard 1889: 33.
- ?= *Unio ricianensis* [*sic*] – Westerlund 1890: 165.
- = *Unio* (Groupe de l'*U. elongatulus*) *riciacensis* – Locard 1893a: 166.
- + *Unio mancus* var. *elongatulus* – Germain 1931: 727.
- + *Unio elongatulus bourgeticus* – Haas 1940: 125; 1969: 34.

ripariopsis Locard, 1890, *Anodonta*.

Anodonta (*Unioniformiana*) *ripariopsis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 72, 202.

Lectotype (here designated) MNHN 22480: Montmorot [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22481: the Tarn, at Albi [Dept. Tarn, Garonne Basin].

- = *Anodonta* (Groupe de l'*A. unioniformis*) *ripariopsis* – Locard 1893a: 292.
- + *Anodonta avonensis* – Germain 1931: 762.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

riqueti Locard, 1890, *Anodonta*.

Anodonta (*Vietuliana*) *riqueti* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 38, 131.

Syntype MNHN 22494: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “Le canal du Midi, près Villefranche-de-Lauragais (Haute-Garonne); la Saône, à Neuville-sur-Saône (Rhône) [Bourguignat]; la Loire, aux environs de Nantes (Loire-Inférieure); la Bresne, à Vers-la-Montagne; Marboz (Ain); Varennes-Saint-Sauveur (Saône-et-Loire) [Loc.]; etc.” (Locard 1890: 38).

= *Anodonta* (Groupe de l'*A. glyca*) *riqueti* – Locard 1893a: 249.
+ *Anodonta intermedia* – Germain 1931: 769.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

rivalis Bourguignat in Locard, 1890,
Pseudanodonta.

Pseudanodonta (*Rayana*) *rivalis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 14, 96.

No types were found in the Locard Collection. Exemplar specimen MNHN 22495: Juigné-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “La Saône, à Auxonne (Côte-d’Or); la Saône, à Neuville-sur-Saône (Rhône) [Bourguignat]; les environs de Caen; l’Orne, à Feugerolles (Calvados) [Loc.]; etc.” (Locard 1890: 14).

= *Pseudanodonta* (Groupe du *P. elongata*) *rivalis* – Locard 1893a: 221.
+ *Pseudanodonta dorsuosa* – Germain 1931: 749.
+ *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

rostratellus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. rostratus*) *rostratellus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 297, 365.

No types were found in the Locard Collection. Exemplar specimen MNHN 22496: the Seine at Rouen [Dept. Seine-Maritime, Seine Basin]. The type series is presumed to be in the Bourguignat Collection. Published localities, “La Seine, au-dessous de Paris, le Pecq, Poissy, etc., dans Seine-et-Oise (Bourguignat).” (Locard 1882: 297).

= *Unio* (*Rostratiana*) *rostratellus* – Locard 1889: 67.
= *Unio rostratellus* – Westerlund 1890: 109.
= *Unio* (Groupe de l'*U. rostratus*) *rostratellus* – Locard 1893a: 208.
+ *Unio tumidus* var. *rostratus* – Germain 1931: 743.
+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

rothomagensis Locard, 1890, *Anodonta*.

Anodonta (*Tricassiniana*) *rothomagensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 79, 220.

Lectotype (here designated) MNHN 22500 and paralectotype MNHN 22501: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22502: Elbeuf [Dept. Seine-Maritime, Seine Basin].

= *Anodonta* (Groupe de l'*A. pentagona*) *rothomagensis* – Locard 1893a: 303.
+ *Anodonta maculata* – Germain 1931: 771.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

rothomagensis Locard, 1890, *Pseudanodonta*.

“*Pseudanodonta rothomagensis*” Servain, 1890: *Bull. Soc. Malac. France* 7: 301. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (*Rossmässleriana*) *rothomagensis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 12, 90.

Lectotype (here designated) MNHN 22497: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22498: the Seine at Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22499: the Seine, Elbeuf [Dept. Seine-Maritime, Seine Basin].

= *Pseudanodonta* (Groupe du *P. grateloupiana* [sic]) *rothomagensis* – Locard 1893a: 219, fig. 230.
+ *Pseudanodonta elongata* – Germain 1931: 747; Haas 1940: 139; 1969: 378.

rothomagensis Locard, 1893, *Unio*.

Unio (Groupe de l'*U. tumidus*) *rothomagensis* Locard, 1893a: *Coq. eaux douces saumâtres France*: 213.

Lectotype (here designated) MNHN 22503 and paralectotypes MNHN 22504 (3 spec.): the Seine

at Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22505: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22506: the Seine at La Bouille [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22507: Elbeuf [Dept. Seine-Maritime, Seine Basin].

+ *Unio tumidus* – Germain 1931: 741.

+ *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

rotula Locard, 1890, *Anodonta*.

Anodonta (*Letourneuxiana*) [*sic*] *rotula* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 78, 216.

No types were found in the Locard Collection. Exemplar specimen MNHN 22508: [locality illegible]. The measured syntype is presumed to be in either the Servain or Bourguignat collection. Published localities, “La Maine, à Cholet; la Loire, à Saint-Philbert-du-Peuple, et au port Thibau, près Angers (Maine-et-Loire) [Servain, Bourguignat]; etc.” (Locard 1890: 79).

= *Anodonta* (Groupe de l’*A. arnouldi*) *rotula* – Locard 1893a: 310.

+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 347.

royianus Locard, 1889, *Unio*.

Unio (*Hispaniana*) *royanus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 65. Incorrect original spelling as indicated by Locard’s (1893a) subsequent usage (ICZN 1999: Art. 32.2.1).

Unio royianus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 149.

Lectotype (here designated) MNHN 22509: ditches of Fort de la Vitriolerie, at Lyon [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22510: “Pentaise” [Dept. Jura, Rhône Basin].

= *Unio royianus* [*sic*] – Westerlund 1890: 110.

= *Unio* (Groupe de l’*U. danielis*) *royianus* – Locard 1893a: 202, fig. 215†.

+ *Unio requieni* – Germain 1931: 737.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

saintsimonianus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l’*U. saint-simonianus*) *saint-simonianus* [ex Fagot ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 287, 357.

Possible syntypes MNHN 22511 (3 spec.): the Canal du Midi, at Villefranche-de-Lauragais [Dept. Haute-Garonne, Aude Basin]. The type series is presumed to be in either the Bourguignat or Fagot collections. Published localities, “Le canal du Midi, à Villefranche-Lauraguais, dans la Haute-Garonne; la Grande-Garonne, à Fréjus, la Giscle, en face le hameau de Saint-Pons, au golfe de Saint-Tropez, dans le Ver (Bourguignat).” (Locard 1882: 287).

= *Unio* (*Saint-Simoniana*) *saint-simonianus* – Locard 1889: 52.

?= *Unio saint-simonianus* – Westerlund 1890: 160.

= *Unio* (Groupe de l’*U. requieni*) *saint-simonianus* – Locard 1893a: 192.

+ *Unio requieni* – Germain 1931: 737.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

salmurensis Bourguignat in Locard, 1889, *Unio*.

Unio pictorum [non *Mya pictorum* Linnaeus, 1758] – Draparnaud 1805: *Hist. Moll. France*: pl. 11, fig. 4.

Unio (*Requieniana*) *salmurensis* [ex Servain ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 51, 128.

Syntype MNHN 22512: the Loire at Orléans [Dept. Loiret, Loire Basin]. Syntype MNHN 22513: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. Syntype MNHN 22514: the Ouvèze [Dept. Ardèche, Rhône Basin]. Syntype MNHN 22515: the Saône, at Saint-Germain-au-Mont-d’Or [Dept. Rhône, Rhône Basin]. Syntype MNHN 22516: “la Meurthe-et-Moselle” [Dept. Meurthe-et-Moselle, Rhin basin]. Syntypes MNHN 22517 (3 spec.): the Saône at Collonges-au-Mont-d’Or [Dept. Rhône, Rhône Basin]. The measured syntype may be in the Servain or Bourguignat collection. Published localities, “La Loire, à Saumur (Maine-et-Loire) [Servain, Bourguignat]; la Loire, à Orléans (Loiret); la Loire, près de Nantes (Loire-Inférieure); la Saône, à Saint-Germain au-Mont-d’Or et à Collonges (Rhône); l’Ouveze (Ardèche); la Meurthe-et-Moselle [Loc.]; etc.” (Locard 1889: 51).

- = *Unio salmurensis* – Westerlund 1890: 122.
- = *Unio* (Groupe de l'*U. requieni*) *salmurensis* – Locard 1893a: 192.
- + *Unio requieni* – Germain 1931: 737.

scotinus Locard, 1889, *Unio*.

Unio (Ateriana) scotinus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 42, 112.

Lectotype (here designated) MNHN 22518 and paralectotypes MNHN 22520 (5 spec.): Selles [Dept. Haute-Saône, Rhône Basin]. Paralectotype MNHN 22519: Passavant-la-Rochère [Dept. Haute-Saône, Rhône Basin].

- = *Unio scotinus* – Westerlund 1890: 68.
- = *Unio* (Groupe de l'*U. ater*) *scotinus* – Locard 1893a: 178, fig. 192.
- + *Unio consentaneus* var. *moquini* – Germain 1931: 734.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

segnis Locard, 1890, *Anodonta*.

Anodonta (Rossmässleriana) segnis [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 52, 157.

Lectotype (here designated) MNHN 22521: “le Torrin à Villeneuve” [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22522: Saint-Amour [Dept. Jura, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. rossmassleriana*) *segnis* – Locard 1893a: 266.
- + *Anodonta avonensis* – Germain 1931: 762.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

seneauxi Bourguignat in Locard, 1889, *Unio*.

Unio pictorum [non *Mya pictorum* Linnaeus, 1758] – Draparnaud 1805: *Hist. Moll. France*: pl. 11, fig. 3 [var. B].

Unio (Batavusiana) seneauxi Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 39, 102.

Unio (Groupe de l'*U. batavus*) *seneauxi* Bourguignat – Locard 1893a: *Coq. eaux douces saumâtres France*: 174, fig. 187. Incorrect subsequent spelling of *U. seneauxi* (ICZN 1999: Art. 33.3).

Lectotype (here designated) MNHN 22523: the Loire at Orléans [Dept. Loiret, Loire Basin]. Para-

lectotype MNHN 22524: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. Paralectotype MNHN 22525: the Grosne, at Marnay [Dept. Saône-et-Loire, Rhône Basin].

- + *Unio caumonti* – Westerlund 1890: 80.
- + *Unio batavus* – Germain 1931: 728.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 51.

septentrionalis Locard, 1890, *Pseudanodonta*.

Pseudanodonta (Rayana) septentrionalis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 15, 97.

Lectotype (here designated) MNHN 22526: La Bouille, near Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22527: the Seine at Elbeuf [Dept. Seine-Maritime, Seine Basin].

- = *Pseudanodonta* (Groupe du *P. elongata*) *septentrionalis* – Locard 1893a: 222.
- + *Pseudanodonta elongata* – Germain 1931: 747; Haas 1940: 139; 1969: 379.

septentrionalis Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. ater*) *septentrionalis* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 284, 354.

No types were found in the Locard Collection. Exemplar specimen MNHN 22528: the “Mandreze,” at Saulcy-sur-Meurthe [Dept. Vosges, Rhin basin]. Published French locality, “Le lac d’Ondres, près Bayonne, dans les Basses-Pyrénées (Nob.)” (Locard 1882: 284).

- = *Unio (Ateriana) septentrionalis* – Locard 1889: 43.
- = *Unio* (Groupe de l'*U. ater*) *septentrionalis* – Locard 1893a: 181, fig. 194.
- ?+ *Unio consentaneus* – Germain 1931: 733.
- + *Unio crassus batavus* – Haas 1940: 130; 1969: 49.

sequanica Bourguignat in Locard, 1882, *Anodonta*.

Anodonta (Groupe de l'*A. spengleri*) *sequanica* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 280, 349.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the

Bourguignat Collection. Published locality, “Les endroit profonds de la Seine, à Poissy (Bourguignat).” (Locard 1882: 280).

= *Anodonta* (*Euanodonta*) *sequanica* – Westerlund 1890: 281.

= *Anodonta* (*Marioniana*) *sequanica* – Locard 1890: 74.

= *Anodonta* (Groupe de l'*A. avonica*) *sequanica* – Locard 1893a: 295.

?+ *Anodonta maculata* – Germain 1931: 771.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 338.

sequanicus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. batavus*) *sequanicus* [ex Coutagne ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 289, 358.

Lectotype (here designated) MNHN 22529 and paralectotypes MNHN 22530 (7 spec.): the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin].

= *Unio* (*Batavusiana*) *sequanicus* – Locard 1889: 36.

= *Unio batavus* var. *sequanicus* – Westerlund 1890: 76.

= *Unio* (Groupe de l'*U. batavus*) *sequanicus* – Locard 1893a: 169, fig. 183.

+ *Unio batavus* – Germain 1931: 727.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

servaini Locard, 1885, *Pseudanodonta*.

Pseudanodonta servaini [ex Bourguignat ms] Locard, 1885: *Bull. Soc. Sci. Nat. Rouen* 21: 14.

Syntype MNHN 22531: near Rouen [Dept. Seine-Maritime, Seine Basin]. Syntype MNHN 22532: the Seine, north of Rouen [Dept. Seine-Maritime, Seine Basin]. The measured syntype may be in the Servain or Bourguignat collection. Published localities, “... dans la Loire, à Saint-Gemmes et à Port-Thibaus, près Angers, dans le département de Maine-et-Loire. ... dans les dragages exécutés par lui dans la Seine aux environs de La Bouille et de Duclair...” (Locard 1885: 18).

= *Anodonta* (*Pseudanodonta*) *servaini* – Westerlund 1890: 303.

= *Pseudanodonta* (*Elongatiana*) *servaini* – Locard 1890: 15.

= *Pseudanodonta* (Groupe du *P. elongata*) *servaini* – Locard 1893a: 222.

+ *Pseudanodonta elongata* – Germain 1931: 747; Haas 1940: 139; 1969: 378.

sigela Locard, 1890, *Anodonta*.

Anodonta (*Intermediana*) *sigela* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 51, 155.

Syntype MNHN 22534: “Rappe” [Dept. Haut-Rhin, Rhin basin]. Syntype MNHN 22535: the Rhône “au confluent” [= Lyon, Dept. Rhône, Rhône Basin]. Syntype MNHN 22536: Auxonne [Dept. Côte-d’Or, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “Le lac du Parc de la Tête-d’Or, à Lyon [Bourguignat]; le Rhône, au confluent et à Vernaison (Rhône); le Sevron, à Varennes-Saint-Sauveur; canal de Gueugnon à Digoin (Saône-et-Loire); les environs d’Auxonne (Côte-d’Or); Rappe (Haut-Rhin); la Loire, à Nantes [Loc.]; etc.” (Locard 1890: 51).

= *Anodonta* (Groupe de l'*A. intermedia*) *sigela* – Locard 1893a: 264.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

siliquiformis Locard, 1890, *Anodonta*.

Anodonta (*Ellipsopsiana*) *siliquiformis* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 34, 124.

Lectotype (here designated) MNHN 22537: “Bois-Vieux” [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. ellipsopsis*) *siliquiformis* – Locard 1893a: 244, fig. 248†.

+ *Anodonta avonensis* – Germain 1931: 762.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

siliquiformis Locard, 1889, *Unio*.

Unio (*Rostratiana*) *siliquiformis* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 67, 153.

Lectotype (here designated) MNHN 22538: Heuilley-sur-Saône [Dept. Côte-d’Or, Rhône Basin]. Paralectotype MNHN 22539: the Saône, at Saint-Germain-au-Mont-d’Or [Dept. Rhône, Rhône Basin]. Paralectotypes MNHN 22540 (2

spec.): the Saône at Neuville-sur-Saône [Dept. Rhône, Rhône Basin].

= *Unio siliquiformis* – Westerlund 1890: 106.

= *Unio* (Groupe de l'*U. rostratus*) *siliquiformis* – Locard 1893a: 208.

+ *Unio tumidus* var. *rostratus* – Germain 1931: 743.

+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

socardianus Bourguignat in Locard, 1882, *Unio*.

Unio (Groupe de l'*U. crassus*) *socardianus* Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 286, 355.

No specimens were found in the Locard Collection. The type series is presumed to be in the Bourguignat Collection. Published locality, “La Moselle, à Metz (Bourguignat).” (Locard 1882: 286).

= *Unio* (*Socardiana*) *socardianus* – Locard 1889: 28.

= *Unio* (Groupe de l'*U. feliciani*) *socardianus* – Locard 1893a: 161.

+ *Unio crassus* – Germain 1931: 722.

+ *Unio crassus batavus* – Haas 1940: 130; 1969: 48.

solmanica Locard, 1890, *Anodonta*.

Anodonta (*Cygnaeana*) *solmanica* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 30, 113.

Lectotype (here designated) MNHN 22541: “Le Solman,” at Villeneuve-d’Aval [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *solmanica* – Locard 1893a: 239.

+ *Anodonta avonensis* – Germain 1931: 762.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

sourbieui Baichère, 1890, *Anodonta*.

Anodonta sourbieui [ex Bourguignat ms] Baichère, 1890 (June): *Bull. Soc. Malac. France* 7: 129.

Anodonta (*Arealiana*) *sourbieui* [ex Bourguignat ms] Locard, 1890 (July): *Contr. Faune Malac. Franç.* 14: 64, 184.

Syntypes MNHN 22542 and MNHN 22544: “étang de Jouarre” [= Azille, Dept. Aude, Aude Basin]. The measured syntype maybe in the Bourguignat Collection. Published French localities, “Le canal

du Midi, à Carcassonne [Bourguignat]; l’étang de Jouarre [Baichère] (Aude); Saint-Philbert-du-Peuple (Maine-et-Loire); la Semence, près Charolles (Saône-et-Loire); la Canne, près Saint-Saulge (Nièvre) [Bourguignat]; l’Albane, les environs d’Auxonne (Côte-d’Or) [Loc.]; etc.” (Locard 1890: 64).

= *Anodonta* (Groupe de l'*A. anatina*) *sourbieui* – Locard 1893a: 282.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

sousanus Locard, 1889, *Unio*.

Unio requienii var. *arcuata* [non Jacquemin, 1835] – Drouët 1857: *Naiades France*: pl. 7, fig. 3; de Joannis, 1859: *Ann. Soc. Linn. Maine-et-Loire* 3: pl. 11, fig. 2.

Unio (*Cyrtusiana*) *sousanus* [ex Castro ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 59; 1899: *Conchyliol. Portug.*: 258.

Unio (Groupe de l'*U. gestroianus*) *souzanus* “Castro” – Locard 1893a: *Coq. eaux douces saumâtres France*: 197, fig. 211. Incorrect subsequent spelling of *U. sousanus* (ICZN 1999: Art. 33.3).

Lectotype (here designated) MNHN 22545: the Rhône, at Valence [Dept. Drôme, Rhône Basin]. Paralectotype MNHN 22546: “Varennes” [Dept. Jura, Rhône Basin]. Paralectotype MNHN 22547 the Grosne, at Marnay [Dept. Saône-et-Loire, Rhône Basin]. Paralectotype MNHN 22548: the Saône, at Chalon-sur-Saône [Dept. Saône-et-Loire, Rhône Basin]. Paralectotypes MNHN 22549 (2 spec.): the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin].

+ *Unio arcuatus* – Westerlund 1890: 181.

= *Unio* (groupe de l'*U. cyrtus*) *sousanus* – Locard 1899: 258.

+ *Unio requienii* – Germain 1931: 737.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

spathuliformis Locard, 1884, *Anodonta*.

Anodonta (*Glyciana*) *spathuliformis* Locard, 1884: *Contr. Faune Malac. Franç.* 8: 24.

Lectotype (here designated) MNHN 22550: Saint-Amour [Dept. Jura, Rhône Basin].

- = *Anodonta* (*Euanodonta*) *spathuliformis* – Westerlund 1890: 224.
- = *Anodonta* (*Anatiniana*) *spathuliformis* – Locard 1890: 59.
- = *Anodonta* (Groupe de l'*A. anatina*) *spathuliformis* – Locard 1893a: 277, fig. 269†.
- + *Anodonta avonensis* – Germain 1931: 762.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

spengleri Bourguignat, 1881, *Anodonta*.

Anodonta (*Spengleriana*) *spengleri* Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 317.

Syntype MNHN 22551: the Loire at Villerest [Dept. Loire, Loire Basin].

- = *Anodonta* (Groupe de l'*A. spengleri*) *spengleri* – Locard 1882: 280.
- = *Anodonta* (*Spengleriana*) *spengleri* – Locard 1884: 37.
- = *Anodonta* (*Euanodonta*) *spengleri* – Westerlund 1890: 275.
- = *Anodonta* (*Glyciana*) *spengleri* – Locard 1890: 36.
- = *Anodonta* (Groupe de l'*A. glyca*) *spengleri* – Locard 1893a: 247.
- + *Anodonta intermedia* – Germain 1931: 769.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 336.

sphaericus Locard, 1893, *Unio*.

Unio (Groupe de l'*U. rhomboideus*) *sphaericus* [ex Bourguignat ms] Locard, 1893a: *Coq. eaux douces saumâtres France*: 153. Junior primary homonym of *U. sphaericus* Lea, 1868 = *Amphinaia refulgens* (Lea, 1868) *fide* Frierson (1927) (ICZN 1999: Art. 57.2).

No types were found in the Locard Collection. Exemplar specimen MNHN 22552: the Saône at Collonges-au-Mont-d'Or [Dept. Rhône, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "... l'Arconce, la Saône dans Saône-et-Loire." (Locard 1893a: 154).

- + *Psilunio littoralis* – Germain 1931: 720.
- + *Psilunio littoralis littoralis* – Haas 1940: 134.
- + *Potomida littoralis littoralis* – Haas 1969: 272.
- + *Potomida littoralis* – Araujo et al. 2009a: 29.

spondea Locard, 1890, *Anodonta*.

Anodonta (*Spondaeana*) *spondea* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 48, 149.

Lectotype (here designated) MNHN 22553 and paralectotype MNHN 24470 the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin].

- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *spondea* – Locard 1893a: 261.
- = *Anodonta intermedia* var. *spondea* – Germain 1931: 770.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

sterra Locard, 1890, *Anodonta*.

Anodonta (*Spondaeana*) *sterra* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 48, 150.

No types were found in the Locard Collection. Exemplar specimen MNHN 22554: (locality illegible) [Dept. Maine-et-Loire, Loire Basin]. The measured syntype may be in the Bourguignat collection. Published French localities, "La Saône, à Neuville-sur-Saône (Rhône) [Bourguignat]; La Loire à Roanne et à Balbigny (Loire); les délaissés du Rhône, aux environs de Seyssel (Ain et Savoie); le Rhône, aux environs de Valence (Drôme) [Loc.]; etc." (Locard, 1890: 48).

- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *sterra* – Locard 1893a: 261.
- ?+ *Anodonta intermedia* – Germain 1931: 770.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

sturmi Bourguignat, 1881, *Anodonta*.

Mytilus anatinus [non *Mytilus anatinus* Linnaeus, 1758] – Sturm 1803: *Deutsch. Fauna* 1: pl. 1.

Anodonta (*Depressiana*) *sturmi* Bourguignat, 1881: *Mater. Moll. Acéphales Syst. Europ.* 1: 223.

Syntype MNHN 22555: Heuilley-sur-Saône [Dept. Côte-d'Or, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. sturmi*) *sturmi* – Locard 1882: 274; 1893a: 271.
- = *Anodonta* (*Euanodonta*) *sturmi* – Westerlund 1890: 245.
- = *Anodonta* (*Sturmiana*) *sturmi* – Locard 1890: 54.
- = *Anodonta cygnaea* [sic] forme *sturmi* – Germain 1931: 754.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 335.

stygus Locard, 1889, *Unio*.

Unio (*Ateriana*) *stygus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 42, 113.

Lectotype (here designated) MNHN 22556 and paralectotypes MNHN 22557 (2 spec.): Passavant-la-Rochère [Dept. Haute-Saône, Rhône Basin]. Paralectotypes MNHN 22558 (2 spec.): Selles [Dept. Haute-Saône, Rhône Basin].

- = *Unio stygnus* – Westerlund 1890: 69.
- = *Unio* (Groupe de l'*U. ater*) *stygnus* – Locard 1893a: 179.
- + *Unio consentaneus* var. *moquini* – Germain 1931: 734.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

subamnicus Locard, 1889, *Unio*.

Unio (Amnicusiana) subamnicus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 31, 88.

Syntype MNHN 22559: the Saône, at Auxonne [Dept. Côte-d'Or, Rhône Basin]. Syntype MNHN 22560: the Marne, at Lagny-sur-Marne [Dept. Seine-et-Marne, Seine Basin]. Syntype MNHN 22561: the Grosne, at Marnay [Dept. Saône-et-Loire, Rhône Basin]. The measured syntype was not located in the Locard Collection. Published French localities, "La Marne, à Lagny et à Chelles (Seine-et-Marne); le Doubs, près Besançon (Doubs); la Saône, à Châlon-sur-Saône; le Grosne, à Marnay (Saône-et-Loire); la Saône, à Collonges et à Lyon (Rhône); la Saône, la Brisotte, la Borne, la Tille, près d'Auxonne (Côte-d'Or); la Saône, à Gray (Haute-Saône) [Loc.]; etc." (Locard 1889: 31).

- = *Unio subamnicus* – Westerlund 1890: 89.
- = *Unio* (Groupe de l'*U. amnicus*) *subamnicus* – Locard 1893a: 163.
- + *Unio mancus* var. *amnicus* – Germain 1931: 726.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

subhispanus Locard, 1889, *Unio*.

Unio (Hispaniana) subhispanus [ex Castro ms] Locard, 1889: *Contr. Faune Malac. Franç.* 13: 65, 147.

Lectotype (here designated) MNHN 22562: the Loire, at Sainte-Gemmes-sur-Loire, near Angers [Dept. Maine-et-Loire, Loire Basin]. Paralectotype MNHN 22563: the Loire near Angers [Dept. Maine-et-Loire, Loire Basin]. Paralectotype MNHN 22564: the Saône at Collonges-au-Mont-d'Or [Dept. Rhône, Rhône Basin].

- = *Unio subhispanus* – Westerlund 1890: 110.
- = *Unio* (Groupe de l'*U. danielis*) *subhispanus* – Locard 1893a: 200; 1899: 244.
- + *Unio pictorum mucidus* – Haas 1940: 123; 1969: 28.

subinornata Locard, 1890, *Anodonta*.

Anodonta (Rossmässleriana) subinornata [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 53, 158.

Syntype MNHN 22565: Varennes-Saint-Sauveur [Dept. Saône-et-Loire, Rhône Basin]. The measured syntype may be in the Mabilles or Bourguignat collection. Published localities, "L'Ain, à Brainans, près Poligny (Jura) [Mabilles, Bourguignat]; le Servon, à Varennes-Saint-Sauver (Saône-et-Loire); la Saône, à Auxonne et à Saint-Jean-de-Losne (Côte-d'Or); la Reyssouze, aux environs de Bourg; la Veyle. à Pont-de-Veyle (Ain); la Loire, aux environs de Nantes (Loire-Inférieure) [Loc.]; etc." (Locard 1890: 53).

- = *Anodonta* (Groupe de l'*A. rossmassleriana*) *subinornata* – Locard 1893a: 267.
- + *Anodonta avonensis* – Germain 1931: 762.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

subquadrangulata Locard, 1890, *Anodonta*.

Anodonta (Cygnaeana) subquadrangulata Locard, 1890: *Contr. Faune Malac. Franç.* 14: 31, 116.

Lectotype (here designated) MNHN 22566: Varennes-Saint-Sauveur [Dept. Saône-et-Loire, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *subquadrangulata* – Locard 1893a: 240, fig. 245†.
- + *Anodonta cygnaea* [sic] – Germain 1931: 754.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 344.

suranica Locard, 1890, *Anodonta*.

Anodonta (Collobiana) suranica [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 68, 194.

Syntype MNHN 22567: Brainans [Dept. Jura, Rhône Basin]. Syntype MNHN 22568: Lake Annecy [Dept. Haute-Savoie, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Pub-

lished localities, “La Canne, à Saint-Sailge; l’Aron, à Montapas; Saint-Maurice (Nièvre); la Semence, à Charolles (Saône-et-Loire) [Bourguignat]; le Suran, à Saint-Jullien; Brainans (Jura); le lac d’Annecy (Haute-Savoie); Mittois (Calvados) [Loc.]; etc.” (Locard 1890: 68).

= *Anodonta* (Groupe de l’*A. anatina*) *suranica* – Locard 1893a: 287.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

surraulti Bourguignat in Locard, 1889, *Unio*.

Unio (*Batavusiana*) *surraulti* [ex Servain ms] Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 38, 98.

Unio (Groupe de l’*U. batavus*) *surraulti* Servain – Locard 1893a: *Coq. eaux douces saumâtres France*: 174. Incorrect subsequent spelling of *U. surraulti* (ICZN 1999: Art. 33.3).

Syntype MNHN 22569: the Loire, Ingrandes-sur-Loire [Dept. Maine-et-Loire, Loire Basin]. Syntype MNHN 22570: the Loire, at Nantes [Dept. Loire-Atlantique, Loire Basin]. The measured syntype may be in the Bourguignat or Servain collection. Published localities, “La Loire près d’Ingrande (Marne-et-Loire) [Bourguignat, Servain]; la Loire, à Nantes et à Basse-Indre (Loire-Inférieure) [Loc.]; etc.” (Locard 1889: 38).

= *Unio surraulti* – Westerlund 1890: 79.

+ *Unio batavus* – Germain 1931: 727.

+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

talus Bourguignat in Locard, 1889, *Unio*.

Unio requieni var. *minima* Drouët, 1857: *Naiâdes France*: pl. 7, fig. 2†.

Unio (*Mucidusiana*) *talus* Bourguignat in Locard, 1889: *Contr. Faune Malac. Franç.* 13: 55, 134. Unjustified replacement name for *U. requieni* var. *minima* Drouët, 1857.

Figured syntype (not seen): precise locality unknown. Exemplar specimen MNHN 22571: “canal de Fresquel” [= the Canal du Midi, at Carcassonne, Dept. Aude, Aude Basin]. Published localities, “Le canal du Midi, à Carcassonne (Aude)

[Bourguignat]; la Seine à Troyes (Aube); la Dordogne, à Sainte-Terre (Gironde); les environs d’Arles (Bouches-du-Rhône) [Drouët, Loc.]; etc.” (Locard 1889: 55).

= *Unio talus* – Westerlund 1890: 138.

= *Unio* (Groupe de l’*U. requieni*) *talus* – Locard 1893a: 193.

?+ *Unio requieni* – Germain 1931: 737.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

thanorella Locard, 1890, *Anodonta*.

Anodonta (*Arealiana*) *thanorella* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 63, 182.

No types were found in the Locard Collection. Exemplar specimen MNHN 22572: Charolles [Dept. Saône-et-Loire, Loire Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “La Mouge, à Laizé [Bourguignat]; le Sevron, à Varennes Saint-Sauveur [Loc.] (Saône-et-Loire); etc.” (Locard 1890: 64).

= *Anodonta* (Groupe de l’*A. anatina*) *thanorella* – Locard 1893a: 281.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

thibauti Locard, 1890, *Anodonta*.

Anodonta (*Spondaeana*) *thibauti* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 48, 152.

Syntype MNHN 22573: the Saône, at Auxonne [Dept. Côte-d’Or, Rhône Basin]. The measured syntype may be in the Bourguignat or Servain collection. Published localities, “La Loire, à Angers (Maine-et-Loire) [Bourguignat, Servain]; la Loire, à Ingrandes et à Nantes (Loire-Inférieure); la Saône, à Auxonne et à Saint-Jean-de-Losne (Côte-d’Or); la Reyssouze, aux environs de Bourg; les délaissés du Rhône, au dus de Seyssel (Ain et Savoie) [Loc.]; etc.” (Locard 1890: 48).

= *Anodonta* (Groupe de l’*A. carvalhopsis*) *thibauti* – Locard 1893a: 262.

+ *Anodonta intermedia* – Germain 1931: 769.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***thripedesta* Locard, 1884, *Anodonta*.**

Anodonta (*Cygnaeana*) *thripedesta* Locard, 1884: *Contr. Faune Malac. Franç.* 8: 15.

Lectotype (here designated) MNHN 22574: Montluçon [Dept. Allier, Loire Basin]. Paralectotype MNHN 24471: the Chalaronne [Dept. Ain, Rhône Basin].

= *Anodonta* (*Cygnaeana*) *thripedesta* – Locard 1890: 32.
= *Anodonta* (*Euanodonta*) *thripedesta* [sic] – Westerlund 1890: 218.

= *Anodonta* (Groupe de l'*A. cygnaea* [sic]) *thripedesta* – Locard 1893a: 240.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 341.

***torsatellus* Bourguignat in Locard, 1882, *Unio*.**

Unio (Groupe de l'*U. renei*) *torsatellus* [ex Berthier ms] Bourguignat in Locard, 1882: *Prodr. Malac. Franç.* 1: 294, 363.

No specimens were found in the Locard Collection. The type series is presumed to be in the Bourguignat Collection. Published locality, “La Seine, près de Saint-Germain, dans Seine-et-Oise (Bourguignat).” (Locard 1882: 294).

= *Unio* (*Holandriana*) *torsatellus* – Locard 1889: 61.

?= *Unio torsatellus* – Westerlund 1890: 129.

= *Unio* (Groupe de l'*U. danielis*) *torsatellus* – Locard 1893a: 201.

+ *Unio requieni* – Germain 1931: 737.

+ *Unio pictorum pictorum* – Haas 1940: 121; 1969: 23.

***trianguliformis* Locard, 1890, *Anodonta*.**

Anodonta (*Arealiana*) *trianguliformis* [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 64, 183.

Syntype MNHN 22575: the Risle, at Pont-Audemer [Dept. Eure, Seine Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, “La Somme, à Abbeville (Somme) [Bourguignat]; la Rille, à Pont-Audemer (Eure); la Seine, au nord de Rouen (Seine-Inférieure) [Loc.]; etc.” (Locard 1890: 64).

= *Anodonta* (Groupe de l'*A. anatina*) *trianguliformis* – Locard 1893a: 282, fig. 274.

+ *Anodonta anatina* – Germain 1931: 758.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

***triffoiricus* Bourguignat in Locard, 1889, *Unio*.**

Unio (*Hispaniana*) *triffoiricus* Bourguignat in Locard 1889: *Contr. Faune Malac. Franç.* 13: 65, 146.

Lectotype (here designated) MNHN 22576 and paralectotype MNHN 22584: the Rhône, at Beaucaire [Dept. Gard, Rhône Basin]. Paralectotype MNHN 22578: the Brizotte, near Auxonne [Dept. Côte-d'Or, Rhône Basin]. Paralectotype MNHN 22579: the Tille, near Auxonne [Dept. Côte-d'Or, Rhône Basin]. Paralectotype MNHN 22580: the Saône, at Saint-Germain-au-Mont-d'Or [Dept. Rhône, Rhône Basin]. Paralectotype MNHN 22581: the Rhône, at Avignon [Dept. Vaucluse, Rhône Basin]. Paralectotype MNHN 22582: the Menthon [Dept. Ain, Rhône Basin]. Paralectotype MNHN 22583: “Varenes” [Dept. Jura, Rhône Basin].

= *Unio triffoiricus* – Westerlund 1890: 111; Germain 1931: 744.

= *Unio* (Groupe de l'*U. danielis*) *triffoiricus* – Locard 1893a: 199.

+ *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

***trinurcina* Locard, 1890, *Anodonta*.**

Anodonta (*Ventricosiana*) *trinurcina* Locard, 1890: *Contr. Faune Malac. Franç.* 14: 26, 109.

Lectotype (here designated) MNHN 22589 and paralectotype MNHN 22590 the Saône, at Tournus [Dept. Saône-et-Loire, Rhône Basin].

= *Anodonta* (Groupe de l'*A. stagnalis*) *trinurcina* – Locard 1893a: 234.

+ *Anodonta cygnaea* [sic] – Germain 1931: 754.

+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 343.

***trivurtina* Bourguignat in Locard, 1890, *Pseudanodonta*.**

“*Pseudanodonta trivurtina*” Servain, 1890: *Bull. Soc. Malac. France* 7: 302. Nude name, unavailable (ICZN 1999: Art. 12.1).

Pseudanodonta (Elongatiana) trivurtina Bourguignat in Locard, 1890: *Contr. Faune Malac. Franç.* 14: 18, 103.

No types were found in the Locard Collection. Exemplar specimen MNHN 22585: the Saône at Couzon-au-Mont-d'Or [Dept. Rhône, Rhône Basin]. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "La Saône, à Trévoux (Rhône) [Bourguignat]." (Locard 1890: 18).

= *Pseudanodonta* (Groupe du *P. elongata*) *trivurtina* – Locard 1893a: 225.
+ *Pseudanodonta dorsuosa* – Germain 1931: 749.
+ *Pseudanodonta elongata* – Haas 1940: 139; 1969: 379.

***tumidulus* Locard, 1889, *Unio*.**

Unio tumidus [non Philippon in Retzius, 1788] – Dupuy 1852: *Hist. Natur. Moll. France* (6): pl. 28, fig. 20.

Unio (Tumidusiana) tumidulus Locard non Lea, 1889, *Contr. Faune Malac. Franç.* 13: 70, 155. Junior primary homonym of *U. tumidulus* Lea, 1856 = *Uniandra contradens tumidula* fide Brandt (1974) (ICZN 1999: Art. 57.2).

Lectotype (here designated) MNHN 22586: the Seine at Rouen [Dept. Seine-Maritime, Seine Basin]. Paralectotype MNHN 22587: the Seine, at Le Pecq [Dept. Yvelines, Seine Basin]. Paralectotype MNHN 22588: the Seine at Elbeuf [Dept. Seine-Maritime, Seine Basin].

+ *Unio tumidus* var. *mülleri* – Westerlund 1890: 98.
= *Unio* (Groupe de l'*U. tumidus*) *tumidulus* – Locard 1893a: 213.
+ *Unio tumidus* – Germain 1931: 742.
+ *Unio tumidus tumidus* – Haas 1940: 129; 1969: 21.

***ultronea* Locard, 1890, *Anodonta*.**

Anodonta (Rossmässleriana) ultronea [ex Bourguignat ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 53, 160.

No specimens were found in the Locard Collection. The measured syntype is presumed to be in the Bourguignat Collection. Published locality, "Aulzey, près Saint-Saulge (Nièvre) [Bourguignat]." (Locard 1890: 53).

= *Anodonta* (Groupe de l'*A. rossmässleriana*) *ultronea* – Locard 1893a: 268.
+ *Anodonta avonensis* – Germain 1931: 762.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

***unioniformis* Locard, 1890, *Anodonta*.**

Anodonta (Unioniformiana) unioniformis Locard, 1890: *Contr. Faune Malac. Franç.* 14: 72, 200.

Holotype (monotypy) MNHN 22591: Saint-Julien [Dept. Jura, Rhône Basin].

= *Anodonta* (Groupe de l'*A. unioniformis*) *unioniformis* – Locard 1893a: 292, fig. 281†.
+ *Anodonta avonensis* – Germain 1931: 762.
+ *Anodonta* (s.s.) *cygnea* – Haas 1969: 346.

***valliericus* Bourguignat in Locard, 1889, *Unio*.**

Unio (Nubilisiana) valliericus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 33, 93.

Syntype MNHN 22592: the Albane [Dept. Côte-d'Or, Rhône Basin]. Syntype MNHN 22593: the Brizotte [Dept. Côte-d'Or, Rhône Basin]. Syntype MNHN 22594: the Ource [Dept. Côte-d'Or, Seine Basin]. Syntype MNHN 22595: the Tille [Dept. Côte-d'Or, Rhône Basin]. The measured syntype may be in the Bourguignat Collection. Published localities, "La Vallière, à Lons-le-Saulnier; Brainans (Jura) [Bourguignat]; la Brizotte, l'Albane, l'Ource, le Tille, près d'Auxonne (Côte-d'Or) [Loc.]; etc." (Locard 1889: 33).

= *Unio valliericus* – Westerlund 1890: 166.
= *Unio* (Groupe de l'*U. locardianus*) *valliericus* – Locard 1893a: 165.
+ *Unio mancus* var. *elongatulus* – Germain 1931: 727.
+ *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

***vardonicus* Locard, 1889, *Unio*.**

Unio (Meretricisiana) vardonicus Locard, 1889: *Contr. Faune Malac. Franç.* 13: 51, 126.

Lectotype (here designated) MNHN 22596 and paralectotype MNHN 24472: Aramon [Dept. Gard, Rhône Basin]. Paralectotype MNHN 22597: the Rhône, at Avignon [Dept. Vaucluse, Rhône Basin].

- = *Unio vardonicus* – Westerlund 1890: 133.
- = *Unio* (Groupe de l'*U. requienii*) *vardonicus* – Locard 1893a: 192.
- + *Unio requienii* – Germain 1931: 737.
- + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

vaschaldei Locard, 1890, *Anodonta*.

Anodonta (*Pammegaliana*) *vaschaldei* [ex F. Pacôme ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 20, 105.

Syntype MNHN 22598: Fréjus [Dept. Var, Argens Basin]. Syntype MNHN 22599: La Jarrie [Dept. Charente-Maritime, minor coastal basin?]. The measured specimen may be in the Pacôme or Bourguignat collection. Published French localities, “Commelle (Isère) [Bourguignat, F. Pacôme]; la Jarrie (Charente-Inférieure) [Loc.]; les environs de Fréjus (Var); etc.” (Locard 1890: 20).

- = *Anodonta* (Groupe de l'*A. pammegala*) *vaschaldei* – Locard 1893a: 228.
- = *Anodonta cygnaea* [sic] forme *veschaldei* [sic] – Germain 1931: 754.
- = *Anodonta cellensis vaschaldei* – Modell 1945: 81.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 343.

veillanensis Locard, 1882, *Unio*.

Unio (Groupe de l'*U. villae*) *veillanensis* [ex H. Blanc ms] Locard, 1882: *Prodr. Malac. Franç.* 1: 292, 361.

Lectotype (here designated) MNHN 22601: Montpellier [Dept. Hérault, Lez Basin].

- = *Unio* (*Villoeana*) [sic] *veillanensis* – Locard 1889: 48.
- = *Unio veillanensis* – Westerlund 1890: 167.
- = *Unio* (Groupe de l'*U. amblyus*) *veilanensis* [sic] – Locard 1893a: 185.
- + *Unio villae* – Germain 1931: 735.
- + *Unio elongatulus requienii* – Haas 1940: 126; 1969: 37.

vendeana Locard, 1890, *Anodonta*.

Anodonta (*Arrosiana*) *vendeana* [ex Servain ms] Locard, 1890: *Contr. Faune Malac. Franç.* 14: 46, 145.

Lectotype (here designated) MNHN 22600: “Bois-Vieux” [Dept. Jura, Rhône Basin].

- = *Anodonta* (Groupe de l'*A. carvalhopsis*) *vendeana* – Locard 1893a: 259.
- + *Anodonta intermedia* – Germain 1931: 769.
- + *Anodonta* (s.s.) *cygnea* – Haas 1969: 345.

yliscerus Rochebrune, 1903, *Unio*.

Unio yliscerus [ex Locard ms] Rochebrune, 1903: *Bull. Mus. Hist. Nat.* 9: 390.

No specimens found. Published locality, “L’Issoire, dans les environs de Chabanais.”

zoasthenus Locard, 1889, *Unio*.

Unio (*Melasia*) *zoasthenus* Locard, 1889: *Contr. Faune Malac. Franç.* 13: 22, 80.

Lectotype (here designated) MNHN 22602 and paralectotypes MNHN 22603 (3 spec.): “Bois-Vieux” [Dept. Jura, Rhône Basin]. Paralectotypes MNHN 22604 (3 spec.): the Sevron, at Marboz [Dept. Ain, Rhône Basin]. Paralectotypes MNHN 22605 (2 spec.): the Brizotte [Dept. Côte-d’Or, Rhône Basin]. Paralectotype MNHN 22606: the Lanterne [Dept. Haute-Saône, Rhône Basin]. Paralectotype MNHN 22607: Les Andelys [Dept. Eure, Seine Basin].

- = *Unio zoasthenus* – Westerlund 1890: 168.
- = *Unio* (Groupe de l'*U. melas*) *zoasthenus* – Locard 1893a: 155.
- + *Unio mancus* – Germain 1931: 724.
- + *Unio crassus batavus* – Haas 1940: 131; 1969: 50.

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REFERENCES

- ARAUJO R., REIS J., MACHORDOM A., TOLEDO C., MADEIRA M. J. & GÓMEZ I. 2009a. — Las náyades de la península Ibérica. *Iberus* 27: 7-72.
- ARAUJO R., TOLEDO C., VAN DAMME D., GHAMIZI M. & MACHORDOM A. 2009b. — *Margaritifera marocana* (Pallary, 1918): a valid species inhabiting Moroccan rivers. *Journal of Molluscan Studies* 75: 95-101.
- BAICHÈRE E. 1890. — Nayades de l'Aude. *Bulletins de la Société malacologique de France* 7: 117-132.
- BÉRENGUIER P. 1882. — *Essai sur la Faune malacologique du Var*. Société d'Études scientifiques et archéologiques de Draguignan, Draguignan, 131 p.
- BOUCHARD-CHANTEREAUX M. 1838. — *Catalogue des mollusques terrestres et fluviatiles observés jusqu'à ce jour à l'état vivant dans le département du Pas-de-Calais*. Imprimerie de Le Roy-Mabille, Boulogne, 94 p.
- BOURGUIGNAT J. R. 1881. — *Matériaux historiques sur les mollusques acéphales du système européen*. Volume 1, part 2: 97-387.
- BOURGUIGNAT J. R. 1883. — *Aperçu sur les Unionidae de la Péninsule italique*. Imprimerie de Jules Tremblay, Paris, 117 p.
- BRANDT R. A. M. 1974. — The non-marine aquatic Mollusca of Thailand. *Archiv für Molluskenkunde* 105: 1-423.
- BREVIÈRE L. 1880. — *Catalogue des mollusques testacés, terrestres & fluviatiles observés dans le département de la Nièvre*. F. Savy, Paris, 30 p.
- BROT A. 1867. — Étude sur les coquilles de la famille des nayades qui habitent le bassin du Léman. *Association Zoologique de Léman* (1866): 55 p.
- CHARPENTIER J. 1837. — *Catalogue des mollusques terrestres et fluviatiles de la Suisse, formant la seconde partie de la faune helvétique*. Publiée par la Société helvétique des Sciences naturelles, Neuchâtel, 28 p.
- DANCE S. P. 1970. — "Le fanatisme du nobis": a study of J.-R. Bourguignat and the "Nouvelle Ecole". *Journal of Conchology* 27: 65-86.
- DE JOANNIS L. 1859. — Étude sur les nayades du département de Maine et Loire. *Annales de la Société linnéenne du département de Maine-et-Loire* 3: 261-295.
- DRAPARNAUD J. P. R. 1805. — *Histoire naturelle des Mollusques terrestres et fluviatiles de la France*. Chez Plassan, Libraire, et Imprimeur de la Grande-Chancellerie de la Légion d'honneur, Paris, 134 p.
- DROUËT H. 1854. — Études sur les Anodontes de l'Aube. *Revue et Magasin de Zoologie*, 2nd series 4: 268-278, 320-333.
- DROUËT H. 1857. — *Études sur les Naiades de la France, seconde partie: Unio, avec neuf planches noires*. Bouquot, Imprimeur-Libraire, Troyes, 136 p.
- DROUËT H. 1889. — Unionidae du Bassin du Rhône. *Mémoires de l'Académie des Sciences, Arts et Belles-Lettres de Dijon*, 4th series 1: 27-113.
- DUMAS E. 1895. — *Faune de l'Allier: conchyliologie bourbonnaise*. Revue scientifique du bourbonnais et du centre de la France, Supplément, Moulins, 82 p.
- DUPUY D. 1843. — *Essai sur les mollusques terrestres et fluviatiles et leurs coquilles vivantes et fossiles du département du Gers*. P.-J. Loss, Paris, 140 p.
- DUPUY D. 1851. — *Histoire naturelle des mollusques terrestres et d'eau douce, qui vivent en France*. Part 4. Chez Victor Masson, Paris: 331-458.
- DUPUY D. 1852. — *Histoire naturelle des mollusques terrestres et d'eau douce, qui vivent en France*. Part 6. Victor Masson, Paris: 595-738.
- DUPUY D. 1877. — Note sur quelques mollusques trouvés à Barbotan. *Journal de Conchyliologie* 25: 15-23.
- FALKNER G., BANK R. A. & VON PROSCHWITZ T. 2001. — CLECOM-PROJECT: Check-list of the non-marine Molluscan species-group taxa of the states of northern, Atlantic and central Europe (CLECOM I). *Heldia* 4: 1-76.
- FALKNER G., RIPKEN T. E. J. & FALKNER M. 2002. — *Mollusques continentaux de France: Liste de référence annotée et bibliographie*. Patrimoines naturels, vol. 52. Muséum national d'Histoire naturelle; Institut d'Écologie et de Gestion de la Biodiversité, Paris, 350 p.
- FRIERSON L. S. 1927. — *A Classified and Annotated Check List of the North American Naiades*. Baylor University Press, Waco, USA, 111 p.
- GERMAIN L. 1905. — Arnould Locard: sa vie, ses travaux. *Annales de la Société linnéenne de Lyon* 52: 182-222.
- GERMAIN L. 1931. — Mollusques terrestres et fluviatiles. *Faune de France* 22: 479-897.
- GRAF D. L. 2007. — Palearctic freshwater mussel (Mollusca: Bivalvia: Unionoida) diversity and the Comparative Method as a species concept. *Proceedings of the Academy of Natural Sciences of Philadelphia* 156: 71-88.
- GRAF D. L. 2010. — Funeral for the *Nouvelle École* – iana generic names introduced for freshwater mussels (Mollusca: Bivalvia: Unionoida). *Proceedings of the Academy of Natural Sciences of Philadelphia* 159: 1-24.
- GRAF D. L. & CUMMINGS K. S. 2007. — Review of the systematics and global diversity of freshwater mussel species (Bivalvia: Unionoida). *Journal of Molluscan Studies* 73: 291-314.
- GRAF D. L. & CUMMINGS K. S. 2011. — Freshwater mussel (Mollusca: Bivalvia: Unionoida) richness and endemism in the ecoregions of Africa and Madagascar based on comprehensive museum sampling. *Hydrobiologia* 678: 17-36.

- HAAS F. 1940. — A tentative classification of the Palearctic unionids. *Zoological Series of Field Museum of Natural History* 24: 115-141.
- HAAS F. 1969. — *Superfamilia Unionacea. Das Tierreich, Lief. 88*. Walter de Gruyter and co., Berlin, 663 p.
- ICZN 1999. — *International Code of Zoological Nomenclature*, 4th edition. International Trust for Zoological Nomenclature, London, 306 p.
- JOHNSON R. I. 1970. — The systematics and zoogeography of the Unionidae (Mollusca: Bivalvia) of the southern Atlantic Slope Region. *Bulletin of the Museum of Comparative Zoology* 140: 263-450.
- KANTOR Y. I. & SYSOEV A. V. 2005. — *Catalogue of Molluscs of Russia and Adjacent Countries*. KMK Scientific Press Ltd., Moscow, 627 p.
- L'HÔPITAL A. 1859. — *Catalogue des mollusques (Testacés) terrestres et fluviatiles observés à l'état vivant dans les environs de Caen*. Chez A. Hardel, Imprimeur-Libraire, Caen, 69 p.
- LOCARD A. 1882. — *Catalogue général des mollusques vivants de France; mollusques terrestres, des eaux douces et des eaux saumâtres. Prodrome de Malacologie Française*. Volume 1. Librairie J.-B. Baillière et fils, Paris, 462 p.
- LOCARD A. 1884. — Description de quelques Anodontes nouveaux pour la faune française. *Contributions à la Faune malacologique française*. Volume 8. Librairie J.-B. Baillière et fils, Paris, 44 p.
- LOCARD A. 1885. — Description de deux nayades nouvelles pour la faune française. *Bulletin de la Société des Amis des Sciences naturelles de Rouen* 21: 11-18.
- LOCARD A. 1889. — Contributions à la faune malacologique française: Catalogue des espèces françaises appartenant aux genres *Margaritana* et *Unio* connues jusqu'à ce jour. *Contributions à la Faune malacologique française*. Volume 13. Librairie J.-B. Baillière et fils, Paris, 163 p. [also *Annales de la Société linnéenne de Lyon* 35: 111-269].
- LOCARD A. 1890. — Contributions à la faune malacologique française: Catalogue des espèces françaises appartenant aux genres *Pseudanodonta* et *Anodonta* connues jusqu'à ce jour. *Contributions à la faune malacologique française*. Volume 14. Librairie J.-B. Baillière et fils, Paris, 240 pp. [also *Annales de la Société Linnéenne de Lyon* 36: 49-284].
- LOCARD A. 1893a. — *Les coquilles des eaux douces et saumâtres de France, descriptions des familles, genres et espèces*. Librairie J.-B. Baillière et fils, Paris, 327 p.
- LOCARD A. 1893b. — Description de quelques Unionidae nouveaux pour la faune française. *Bulletin de la Société d'Étude des Sciences naturelles d'Elbeuf* 12: 1-14.
- LOCARD A. 1894. — Description de deux nouvelles espèces de *Pseudanodonta*. *Revue scientifique du Bourbonnais et du Centre de la France* (1894): 64-68.
- LOCARD A. 1899. — *Conchyliologie portugaise: Les Coquilles Terrestres des eaux douces et saumâtres*. Imprimerie A. Rey, Lyon, 303 p.
- MICHAUD A. L. G. 1831. — *Complément de l'histoire naturelle des mollusques terrestres et fluviatiles de la France, de J.P.R. Draparnaud*. Chez Lippmann, Imprimeur-Libraire, Verdun, 116 p.
- MODELL H. 1945. — Die Anodontinae, Ortm. emend. (Najad., Mollusca). *Jenaische Zeitschrift für Naturwissenschaft herausgegeben von der Medizinisch-naturwissenschaftlichen Gesellschaft zu Jena* 78: 58-100.
- MÖRCH O. A. 1853. — Acephala. Annulata Cirripedia. Echinodermata. *Catalogus Conchyliorum Quae Reliquit D. Alphonso D'Aguirra & Gadnea Comes de Yoldi...* 2: 74 pp.
- NAGEL K.-O. & BADINO G. 2001. — Population genetics and systematics of European Unionioidea, in BAUER G. & WÄCHTLER K. (eds), *Ecological Studies*. Volume 145: *Ecology and Evolution of the Freshwater Mussels Unionoida*. Springer-Verlag, Berlin: 51-80.
- NAGEL K.-O., BADINO G. & ALESSANDRIA B. 1996. — Population genetics of European Anodontinae (Bivalvia: Unionidae). *Journal of Molluscan Studies* 62: 343-357.
- NAGEL K.-O., BADINO G. & CELEBRANO G. 1998. — Systematics of European naiades (Bivalvia: Margaritiferidae and Unionidae): a review and some new aspects. *Malacological Review, Supplement Bivalvia* 1: 83-104.
- PARMALEE P. W. & BOGAN A. E. 1998. — *The Freshwater Mussels of Tennessee*. University of Tennessee Press, Knoxville, 328 p.
- REIS J. & ARAUJO R. 2009. Redescription of *Unio tumidiformis* Castro, 1885 (Bivalvia, Unionidae), an endemism from the south-western Iberian Peninsula. *Journal of Natural History* 43: 1929-1945.
- ROCHEBRUNE A.-T. 1903. — Sur une collection d'Unionidae du département de la Charente. *Bulletin du Muséum national d'Histoire naturelle* 9: 388-393.
- ROSSMÄSSLER E. A. 1837. — *Iconographie der Land- und Süßwasser-Mollusken, mit vorzüglicher Berücksichtigung der europäischen noch nicht abgebildeten Arten*. Volume 1 (5/6). Arnoldische Buchhandlung, Dresden und Leipzig, 70 p.
- SERVAIN G. 1882. — *Histoire des Mollusques Acéphales des Environs de Francfort*. Imprimerie de S. Lejay & Co, Poissy, 65 p.
- SERVAIN G. 1885. — Unios et Anodontes du Lac de Zurich. *Bulletins de la Société malacologique de France* 2: 323-352.
- SERVAIN G. 1887. — Histoire malacologique du Lac de Grandlieu dans la Loire-Inférieure. *Bulletins de la Société malacologique de France* 4: 237-272.
- SERVAIN G. 1888. — Aperçu sur la faune des mollusques fluviatiles des environs de Hambourg. *Bulletins de la Société malacologique de France* 5: 287-341.
- SERVAIN G. 1890. — Des Acéphales lamelibranches fluviatiles du système européen. *Bulletins de la Société*

- malacologique de France* 7: 281-323.
- SIMONE L. R. L. 2006. — *Land and Freshwater Molluscs of Brazil*. EGB, Fapesp, São Paulo. 390 pp.
- SIMPSON C. T. 1900. — Synopsis of the Naiades, or pearly fresh-water mussels. *Proceedings of the US National Museum* 22: 501-1044.
- SIMPSON C. T. 1914. — *A Descriptive Catalogue of the Naiades or Pearly Freshwater Mussels*. Published privately by Bryant Walker, Detroit, 1540 p.
- STABILE G. 1859. — Prospetto sistematico-statistico dei molluschi terrestri e fluviali viventi nel territorio di Lugano. *Atti della Società geologica residente in Milano* 1: 127-189.
- STAROBOGATOV Y. I., PROZOROVA L. A., BOGATOV V. V. & SAYENKO E. M. 2004. — Bivalvia, in TSALOLIKHIN S. J. (ed.), *Opredelitel' presnovodnykh besnozvonichnykh Rossii i sopredel'nykh territorii*. Volume 6. Nauka, St. Petersburg: 9-251.
- STURM J. 1803. — *Deutschlands Fauna in Abbildungen nach der Natur mit Beschreibungen*, pt. I. Gedruckt auf Kosten des Verfassers, Nürnberg.
- WESTERLUND C. A. 1890. — Malacozoa Acephala. *Fauna der in der Paläarktischen Region (Europa, Kaukasien, Sibirien, Turan, Persien, Kurdistan, Armenien, Mesopotamien, Kleinasien, Syrien, Arabien, Egypten, Tripolis, Tunesien, Algerien und Marocco) lebenden Binnenconchylien*. Volume 2 (7). Håkan Ohlsson's Buchdruckerei, Lund, 319 p.

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